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BASELINE HUMAN HEALTH RISK ASSESSMENT
FOR THE
GULFCO MARINE MAINTENANCE
SUPERFUND SITE
FREEPORT, TEXAS

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1.0 INTRODUCTION

The United States Environmental Protection Agency (EPA) named the former site of Gulfco Marine Maintenance, Inc. (the Site) in Freeport, Brazoria County, Texas to the National Priorities List (NPL) in May 2003. The EPA issued a modified Unilateral Administrative Order (UAO), effective July 29, 2005, which was subsequently amended effective January 31, 2008. The UAO required the Respondents to conduct a Remedial Investigation and Feasibility Study (RI/FS) for the Site. The Statement of Work (SOW) for the RI/FS at the Site, provided as an Attachment to the UAO from the EPA, requires the performance of a Baseline Human Health Risk Assessment (BHHRA) to "evaluate and assess the risk to human health posed by the contaminants present at the Site." As specified in Paragraph 37a of the SOW, BHHRA activities include the submittal of Draft and Final Potential Chemicals of Concern (PCOC) Memoranda and Draft and Final Exposure Assessment (EA) Memoranda, ending with a Draft and Final BHHRA. In order to expedite completion of the RI/FS through submittal of a single BHHRA deliverable, the interim BHHRA deliverables (i.e., the PCOC and EA Memoranda) have been incorporated in this BHHRA.

Pursuant to Paragraphs 17 through 28 of the SOW, an RI/FS Work Plan and a Sampling and Analysis Plan were prepared for the Site. These documents were approved with modifications by EPA on May 4, 2006 and were finalized on May 16, 2006. This BHHRA has been prepared in accordance with Section 5.7.1 of the approved RI/FS Work Plan (the Work Plan) (PBW, 2006a). The BHHRA was prepared by Pastor, Behling & Wheeler, LLC (PBW), on behalf of LDL Coastal Limited LP (LDL), Chromalloy American Corporation (Chromalloy), and The Dow Chemical Company (Dow), collectively, the Gulfco Restoration Group (GRG).

A BHHRA is the systematic, scientific characterization of potential adverse effects resulting from exposures to hazardous agents or situations (NRC, 1983). The results of the BHHRA are used to support risk management decisions and determine if remediation or further action is warranted at a site.

The RI/FS is the methodology that the Superfund program has established for characterizing the nature and extent of risks posed by uncontrolled hazardous wastes sites and for developing and evaluating remedial options. The risk assessment methodology is based on approaches described by the United States Environmental Protection Agency (EPA) in *Risk Assessment Guidance for Superfund (RAGS)*, *Volume 1, Human Health Evaluation Manual, Part A* (EPA, 1989) and various supplemental and

associated guidance (e.g., EPA, 1986; 1991a and b; 1992a and b; 1997a; 1999; 2001; 2002a, and b; 2004a and b; 2007; and 2008). The BHHRA generally consists of the following components:

- Review of analytical data and identification of potential chemicals of concern (PCOCs);
- Exposure assessment, including identification of potentially exposed populations, exposure pathways, and chemical intakes;
- Human health toxicity assessment;
- Risk characterization; and
- Uncertainty analysis.

The Nature and Extent Data Report (NEDR) (PBW, 2009) describes the history and background of the Site, and the environmental investigations conducted during the various phases of the RI. It also includes all of the analytical data generated during the RI and a discussion of the environmental conditions at the Site.

Section 2.0 of the BHHRA describes the process for evaluating the data and selecting PCOCs. Section 3.0 provides the exposure assessment. The toxicity assessment is contained in Section 4.0. Risks are characterized in Section 5.0. Section 6.0 describes uncertainties associated with the risk assessment process. Section 7.0 presents the conclusions of the risk assessment. Appendix A provides statistical calculations for the analytical data, by media; Appendix B provides the statistical comparisons between Site data and background data; Appendix C provides the intake calculations for the receptors evaluated herein; Appendix D provides the risk calculations; and Appendix E provides a copy of the restrictive covenants for the Site.

1.1 SITE LOCATION AND HISTORY

The Site is located northeast of Freeport, Texas in Brazoria County at 906 Marlin Avenue (also referred to as County Road 756). The Site consists of approximately 40 acres within the 100-year coastal floodplain along the north bank of the Intracoastal Waterway between Oyster Creek to the east and the Old Brazos

River Channel to the west. Figure 1 provides a map of the Site vicinity; Plate 1 provides a detailed Site map and shows site features and sampling locations.

During the 1960s, the Site was used for occasional welding but there were no on-site structures (Losack, 2005). According to the Hazard Ranking Score Documentation (TNRCC, 2002), from 1971 through 1999, at least three different owners used the Site as a barge cleaning facility. Beginning in approximately 1971, barges were brought to the facility and cleaned of waste oils, caustics and organic chemicals, with these products stored in on-site tanks and later sold (TNRCC, 2002). Sandblasting and other barge repair/refurbishing activities also occurred on the Site. At times during the operation, wash waters were stored either on a floating barge, in on-site storage tanks, and/or in surface impoundments on Lot 56 of the Site. The surface impoundments were closed under the Texas Water Commission's (TCEQ predecessor agency) direction in 1982 (Carden, 1982).

Marlin Avenue divides the Site into two areas. For the purposes of this report, it is assumed that Marlin Avenue runs due west to east. The property to the north of Marlin Avenue (the North Area) consists of undeveloped land and the closed impoundments, while the property south of Marlin Avenue (the South Area) was developed for industrial uses with multiple structures, a dry dock, sand blasting areas, an aboveground storage tank (AST) tank farm that is situated on a concrete pad with a berm, and two barge slips connected to the Intracoastal Waterway.

The South Area is zoned as "W-3, Waterfront Heavy" by the City of Freeport. This designation provides for commercial and industrial land use, primarily port, harbor, or marine-related activities. The North Area is zoned as "M-2, Heavy Manufacturing." Restrictive covenants prohibiting any land use other than commercial/industrial and prohibiting groundwater use have been filed for all parcels within both the North and South Areas. Additional restrictions requiring any building design to preclude vapor intrusion have been filed for Lots 55, 56, and 57. A further restriction requiring EPA and TCEQ notification prior to any building construction has also been filed for Lot 55, 56, and 57. Copies of these covenants, including parcel maps with the specific Lot identified, are provided in Appendix E.

Adjacent property to the north, west and east of North Area is unused and undeveloped, and/or is designated as wetlands as shown in Figure 2. Adjacent property to the east of the South Area is currently used for industrial purposes while the property directly to the west of the Site is currently vacant and previously served as a commercial marina. The Intracoastal Waterway bounds the Site to the south. Residential areas are located south of Marlin Avenue, approximately 300 feet west of the Site, and 1,000 feet east of the Site.

1.2 ENVIRONMENTAL SETTING

The Site is located between Galveston and Matagorda Bays and is situated along approximately 1200 feet (ft.) of shoreline on the Intracoastal Waterway. The Intracoastal Waterway is a coastal shipping canal that extends from Port Isabel to West Orange on the Texas Gulf Coast and is a vital corridor for the shipment of bulk materials and chemicals. It is the third busiest shipping canal in the United States, and along the Texas coast carries an average of 60 to 90 million tons of cargo each year (TxDOT, 2001). Of the cargo carried between Galveston and Corpus Christi, TX, 49 percent is comprised of petroleum and petroleum products and 38 percent is comprised of chemicals and related products. Approximately 50,000 trips were made by vessels making the passage through the Intracoastal Waterway between Galveston and Corpus Christi, TX in 2006 (USACE, 2006).

The South Area includes approximately 20 acres of upland that were created from dredged material from the Intracoastal Waterway. Prior to construction of the Intracoastal Waterway, this area was most likely coastal wetlands. The North Area, excluding the capped impoundments, the uplands area, and access roads, is considered estuarine wetland (USFWS, 2008), as shown in Figure 2. The North Area consists of approximately five acres of upland, which supports a variety of herbaceous vegetation that is tolerant of drier soil conditions, while the North Area wetlands are approximately 15 acres in size. The wetlands at the Site are typical of irregularly flooded tidal marshes of the Texas Gulf Coast and supports wildlife that would be common in the Texas coastal marsh.

There are two ponds on the North Area, located east of the former surface impoundments (Plate 1). The larger of the two ponds is called the Fresh Water Pond while the other pond is referred to as the Small Pond. It should be noted, however, that based on field measurements of salinity, the water in the Fresh Water Pond is brackish while water in the Small Pond is less brackish (but is not fresh water). The Fresh Water Pond water depth is generally 4 to 4.5 feet. The Small Pond is a shallow depression that tends to dry out during summer months and periods of drought. The water depth in the Small Pond was approximately 0.2 feet when sampled in July 2006 and nearly dry when sampled in June 2008.

The Intracoastal Waterway supports barge traffic and other boating activities. Fishing has been known to occur on and near the Site. Red drum (*Sciaenops ocellatus*), black drum (*Pogonias cromis*), spotted seatrout (*Cynoscion nebulosus*), southern flounder (*Paralichthys lethostigma*) and other species are reportedly caught in the Freeport Area (TPWD, 2009). It should be noted that, during the fish sampling conducted for the human health fish ingestion pathway risk assessment, red drum were not caught (using nets) as frequently as other species (see discussion in NEDR (PBW, 2009)), presumably because of a lack

of habitat and prey items near the Site. Recreational and commercial fishermen reportedly collect blue crabs (*Callinectes sapidus*) from waterways in the region. The Texas Department of State Health Services (TDSHS) has banned the collection of oysters from this area due to biological hazards and has issued a consumption advisory for king mackerel for the entire Gulf Coast due to mercury levels in the fish (TDSHS, 2005).

2.0 DATA EVALUATION AND IDENTIFICATION OF POTENTIAL CHEMICALS OF CONCERN

This section describes the general data evaluation procedures that were used to ensure that data included in the risk assessment are of sufficient quality for quantitative risk assessment, as per EPA (1992a) guidance. This section also presents the methods that were followed to identify PCOCs for applicable exposure media in the BHHRA. Data collected as part of the RI were collected to support three objectives: nature and extent evaluation, risk assessment, and evaluation of potential remedial alternatives. The NEDR (PBW, 2009) discusses data collected to define the nature and extent of contamination at the Site and may contain data that are not of concern from a human health exposure perspective (e.g., Zone B and Zone C groundwater due to high total dissolved solids concentration and restrictive covenants precluding Site groundwater use (Appendix E)).

For the purposes of this risk assessment, a chemical of interest (COI) is defined as any compound detected in at least one environmental sample. A PCOC is any compound that does not get eliminated from further consideration based on frequency of detection, evaluation with blank contamination or background concentrations, and a concentration-toxicity screen, described in this section. PCOCs are quantitatively evaluated in the risk assessment. A chemical of concern (COC) is a compound that is determined as part of the risk assessment to present a potential adverse human health risk and will be evaluated further in the Feasibility Study, if necessary.

Data related to the nature and extent of potential contamination at the Site were obtained as part of the RI and, as noted previously, are discussed in the NEDR (PBW, 2009). Unless otherwise noted, the samples were analyzed for the full suite of analytes as specified in the approved Work Plan (PBW, 2006a). Plate 1 provides sample locations for site-related samples, and Figure 3 provides sample locations for the background soil, surface water, and sediment samples. Tables 1 through 15 summarize the key parameters for the COIs measured in these samples and provide maximum and minimum measured concentrations, as well as summary statistics for each COI for each media. Average and 95% upper confidence limits (95% UCLs) on the mean were estimated using EPA guidance (EPA, 2002b) and are presented in the tables as well. The method for estimating the average and 95% UCLs is described in greater detail in the Section 3.4.

Eighty-three surface soil samples (0 to 0.5 ft below ground surface (bgs)) and 83 subsurface soil samples (0.5 ft to 4 ft bgs) were collected in the South Area (summarized in Tables 1 and 2). Eighteen surface soil samples and 18 subsurface soil samples were collected in the North Area (summarized in Tables 8 and 9).

Two additional surface soil samples were collected near the former transformer shed at the South Area for polychlorinated biphenyls (PCBs) analyses only. Ten background soil samples were collected within the approved background area approximately 2,000 feet east of the Site near the east end of Marlin Avenue (summarized in Table 15; sample locations shown on Figure 3).

Thirteen groundwater samples were collected from Zone A in the South Area (summarized in Table 3) and sixteen groundwater samples were collected from Zone A in the North Area (summarized in Table 10). The groundwater investigation evaluated contamination in deeper zones, Zones B and C. This information is discussed in the NEDR (PBW, 2009) but was not included in the BHHRA since it is unlikely that contaminants in deeper groundwater affect the media evaluated in the risk assessment based on high TDS and the restrictive covenants on the property (Appendix E).

Sixteen sediment samples were collected from the Intracoastal Waterway in front of the Site (summarized in Table 6). One additional sediment sample was collected from the Intracoastal Waterway near the Site and analyzed for DDT to further characterize the extent of contamination as described in the NEDR (PBW, 2009). Nine background sediment samples were collected from the Intracoastal Waterway east of the Site and across the canal (summarized in Table 7). Forty-eight sediment samples were collected in the North Area wetlands (summarized in Table 13). Seven additional sediment samples were collected from the North Area wetlands and analyzed for DDT; five of these samples were also analyzed for zinc. A total of eight sediment samples were collected from the two ponds located in the North Area (summarized in Table 14).

Four surface water samples were collected in the Intracoastal Waterway adjacent to the Site (summarized in Table 4). Four surface water samples were collected from the background surface water area, located in the Intracoastal Waterway east of the Site, and across the canal (summarized in Table 5; sampling locations shown on Figure 3). Four surface water samples were collected in the wetlands drainage areas north of Marlin Avenue (summarized in Table 11) and a total of six surface water samples were collected from the two ponds located in the North Area (summarized in Table 12). Chemical analyses of these surface water samples included both total and dissolved concentrations of metals. For the purposes of the BHHRA, total concentrations were used since it is unlikely that samples would be filtered prior to incidental exposure as defined by the scenarios evaluated in this risk assessment.

2.1 DATA EVALUATION

The Quality Assurance Project Plan (QAPP) (PBW, 2006c) and Field Sampling Plan (FSP) (PBW, 2006b), which were developed concurrently with the RI/FS Work Plan (PBW, 2006a), were designed to ensure that the data collected during the RI are appropriate for quantitative risk assessment. After RI data collection, the existing data and RI data were subject to a data evaluation following procedures recommended by EPA (1992a) to ensure that these data are of adequate quality for quantitative risk assessment and to support risk management decisions. These include consideration of the following factors: data sources, completeness of documentation, adequacy of detection limits, and "data quality indicators" as defined by the EPA (1992a) guidance. The data quality indicators include: 1) sampling completeness; 2) representativeness of sampling locations for relevant exposure areas; 3) usability indicated by data validation results (including considerations of laboratory precision and accuracy); and 4) comparability of data analyzed by different methods. Data representativeness is one of the most important criteria when selecting data for use in the quantitative risk assessment. Representativeness is the extent to which data characterize potential exposure and hence risks to human health and the environment. Data selected for use in the quantitative risk assessment should be of overall high quality, and data validation should confirm that the data collected during the RI are of adequate quality for risk assessment.

Data validation was performed following the procedures set forth in the RI/FS Work Plan (PBW, 2006a) and the QAPP (PBW, 2006c). Results of the data evaluation and validation for the BHHRA data set are summarized as follows:

- Data Sources All BHHRA data were generated using rigorous analytical methods (i.e., EPA-approved methods) by a single analytical laboratory with a documented quality system (i.e., accredited under the National Environmental Laboratory Accreditation Program). Historical data was not used for the BHHRA.
- Completeness of Documentation Field sampling activities were documented on field data sheets. Sample custody was documented to maintain security and show control during transfer of samples. Analytical results were reported in laboratory data packages containing all information necessary for the data validation.
- Adequacy of Detection Limits The QAPP specifies target Method Detection Limits (MDL),
 which were established based on the laboratory's capabilities and are less than the human health

Preliminary Screening Value (PSV), where possible, based on the standard available method with the lowest possible MDL. The MDL, as reported by the laboratory, for all constituents is at or below the target MDL or the human health PSV for the BHHRA data set except for 3,3'-dichlorobenzidine in the four Phase 2 surface water samples and benzidine in the seventeen Phase 2 sediment samples, one Phase 3 sediment sample, and four Pahse 4 sediment samples. (For Phase 1, the sample detection limits, or SDLs, are below the target MDLs for both of these constituents. Benzidine was not detected in any sample from the Site and 3,3'-dichlorobenzidine was only detected in a one sediment sample from the Site.)

Data Quality Indicators

- Sampling Completeness The percentage of environmental samples collected versus that planned is 100% for samples critical to the BHHRA and is greater than the QAPP goal of 90% for every media and test except chromium VI. Chromium VI analyses were not performed for most of the Phase 1 sediments and all of the Phase 1 soils. However, there is no effect on usability for the BHHRA data set since total chromium, which includes any chromium VI, is reported for all samples.
- o Representativeness of Sampling Locations Phase 1 samples were collected in accordance with the sampling plan presented in the FSP (PBW, 2006b), which was designed to meet the Data Quality Objectives (DQOs) detailed in the QAPP (PBW, 2006c), and additional samples were collected as needed based on the results of the initial sampling event. All samples were properly located and collected using approved standard operating procedures. As described in the RI/FS Work Plan (PBW, 2006a), it was decided that the majority of the soil and sediment sampling would be conducted on a random grid basis with some focused sampling in areas of known historical use. This type of sampling program is appropriate for estimating risks since human health exposure generally occurs randomly over a site, or a portion of a site. Plate 1 shows locations of soil, surface water, sediment and groundwater samples.
- O Data Validation Results All data were validated using an approved standard operating procedure (Appendix F in the QAPP) based on the EPA *National Functional Guidelines* for organics and inorganics, respectively (EPA, 1999 and 2002c). A Level III validation including all quality control (QC) checks such as spike recovery, duplicate precision, blanks, holding time, calibration, surrogates, and internal standards was completed for 100% of the samples. Additionally, a Level IV validation that included examination of the raw data was completed for 10% of the soil, sediment, and surface water samples as stipulated in the QAPP. If a QC deficiency was found, sample results were flagged as

- estimated (with expected direction of bias, where possible), blank-affected (due to contamination in an associated field or laboratory blank), or rejected (due to a major QC deficiency).
- o Comparability of Data Data were generated using the same analytical method for each constituent except naphthalene. Naphthalene was analyzed using SW-846 Method 8260B for all samples but four groundwater samples, which were analyzed using SW-846 Method 8270C. Both methods are rigorous analytical methods performed by a fixed analytical laboratory with a documented quality system meeting stringent QC requirements (unless qualified as rejected) and thus are comparable. All sample results are in standardized units of measure with dry-weight correction for soils and sediments.

As per EPA (1989 and 1992a), validated data qualified as J (estimated) and U (blank-affected) are included in the risk assessment. For quantitative purposes, when a compound was not detected or was blank-affected, one-half of the sample quantitation limit (as defined by the U.S. EPA (1992a)) was used as a proxy to provide a measurement for analysis. Only those data that were rejected (i.e., qualified as "R") were not included in the quantitative risk assessment. As indicated in the RI/FS Work Plan (PBW, 2006a), once the data collection, chemical analysis, and data evaluation/validation were complete, the data were analyzed to identify COIs for the human health risk assessment. The following section describes the process for determining whether a COI became a PCOC and was evaluated further in the BHHRA.

2.2 IDENTIFICATION OF POTENTIAL CHEMICALS OF CONCERN

EPA guidance (EPA, 1989) recommends considering several steps to eliminate compounds from further evaluation and, as such, this section describes the process used to reduce the list of chemicals evaluated in the BHHRA. Compounds were eliminated from further consideration if: 1) they were detected infrequently in a given media (i.e., in less than five percent of the samples); 2) they were measured at similar concentrations in blank samples; 3) they were measured at similar concentrations in background samples; or 4) they were detected at a high concentration (above one tenth of the screening value discussed below).

All analytes detected in at least one sample above the detection limit (including "J-flagged" data) were initially reviewed. If a compound was detected in less than five percent of the samples, the compound was eliminated from further evaluation for that media. This step was only considered in media where

twenty or more samples were collected and if that compound was not present in another media. The lab did not report any blank contamination issues with the data so no compounds were eliminated based on this criterion.

The data for soil, groundwater, surface water, and sediment are summarized in Tables 1 through 15. These tables show the frequency of detection, minimum, maximum, and average concentration for each COI. The 95% upper confidence limit (95% UCL) on the mean concentration was calculated as described in Section 3. Appendix A provides the statistical calculations for these data.

2.2.1 Concentration-Toxicity Screen

A "concentration-toxicity screen" step, as recommended by EPA (EPA, 1989), was conducted to limit the number of chemicals that were included in a quantitative risk assessment while also ensuring that all chemicals that might contribute significantly to the overall risk were addressed. The screening values used were 1/10th of the human health criteria, which were the lower of the EPA or TCEQ values as presented in the NEDR (PBW, 2009) for soil, surface water, and sediment. These screening criteria were compared to the maximum measured concentration and those compounds measured in excess of the screening criteria have been denoted in bold on Tables 1, 2, 4, 6, 8, 9, 11, 12, 13, and 14. Because there are no readily available screening levels appropriate for the complete groundwater pathway at the Site, all chemicals of interest for groundwater media (Tables 3 and 10) were quantitatively evaluated in the risk assessment. A similar screen was conducted for media collected at the background areas (Tables 5, 7, and 15), but this was done merely for comparative purposes. Risks associated with background concentrations were not calculated in the BHHRA.

Exposure and risk calculations were not estimated for the surface water pathway in the Intracoastal Waterway and Wetlands Area because none of the measured maximum COI concentrations exceeded 1/10th of their respective TCEQ's contact recreation Protection Concentration Level (PCL). These PCLs were developed for a child exposure scenario for noncarcinogenic compounds, and an age-adjusted scenario for carcinogenic compounds. The PCL is based on incidental ingestion and dermal contact of surface water while swimming for three hours, 39 times per year. It is believed that this is a bounding estimate for the Intracoastal Waterway, surface water north of Marlin Ave., and the ponds north of Marlin Ave. since none of these surface water bodies are very favorable for swimming and true exposure is likely to be much less than the scenario described by TRRP's contact recreation PCL. All surface water concentrations were well below 1/10th of the PCL for the Intracoastal Waterway and wetlands area

surface water. Maximum measured concentrations of arsenic and thallium in the pond samples exceeded $1/10^{th}$ of their respective PCL but did not exceed the PCL and, therefore, neither were retained for further evaluation. Although TCEQ does not provide a PCL for iron, one was calculated using the contact recreation assumptions (TCEQ, 2006). Measured concentrations of iron in surface water were well below the calculated contact recreation PCL of 2,800 mg/L. Therefore, it was concluded that chemical concentrations of PCOCs in surface water samples from the Intracoastal Waterway near the Site, surface water in the North Area wetlands, and surface water in the North Area ponds do not pose an unacceptable health risk and chemical concentrations in these media were not evaluated further in the BHHRA.

2.2.2 <u>Comparison to the Background Areas</u>

To help provide an understanding of what COIs and concentrations are considered to be Site-related, a background evaluation was conducted (as described in the Work Plan (PBW, 2006a)) that included: 1) soil samples from ten off-site locations; 2) sediment samples from nine off-site locations in the Intracoastal Waterway; and 3) surface water samples within four off-site "zones" in the Intracoastal Waterway. This information was used to characterize Site conditions in the NEDR (PBW, 2009).

The soil background data were compared to soil from the South Area and North Areas of the Site, as well as sediments from the North wetland and the North Area ponds. As described in the NEDR (PBW, 2009), based on similarities in composition and condition between background soil and sediments of the North wetlands area, this comparison was appropriate. Sediment and surface water data for the Intracoastal Waterway samples were compared to sediment and surface water data collected in the Intracoastal Waterway background location.

Comparisons between Site sampling data and Site-specific background data were conducted for all inorganic compounds measured regardless if they exceeded the concentration-toxicity screen. The background comparisons were performed in accordance with EPA's *Guidance for Comparing Background and Chemical Concentrations in Soil for CERCLA Sites* (EPA, 2002d). Distribution testing was conducted to estimate 95% UCLs and the summary statistics were used to perform comparison of the means analyses. The output of these background statistical comparison tests is provided in Appendix B. Table 16 summarizes the results of the testing and indicates whether the Site data were found to be statistically different than the background data.

In several instances (e.g., lithium in South Area soil; barium in North Area wetlands sediment), statistical differences between the two data sets were due to higher concentrations in the background population, as

noted in Table 16. If there was not Site-specific background data for a COI (as noted in Table 16 with an "NA") and it was measured in excess of $1/10^{th}$ of the screening level, the COI was retained for further evaluation in the BHHRA (e.g., iron). COIs shown to be statistically different (and higher) when compared to background data were also retained for quantitative evaluation in the BHHRA. The PCOCs carried through the BHHRA for soil, surface water, and sediment are listed in Table 17.

A statistical comparison between Site surface water and background surface water could not be conducted given the small size of both data sets. Visual inspection of the data indicates that there is no consistent observable difference between the data sets for the COIs. It should be noted, however, that all COIs in surface water were screened out during the toxicity-concentration step and are not evaluated further in the BHHRA.

Background groundwater data were not collected as part of the RI. Therefore, all COIs detected in Zone A groundwater, as shown in Tables 3 and 10 for the South Area and North Area, respectively, were evaluated quantitatively in the BHHRA and are discussed in greater detail in the following sections.

3.0 EXPOSURE ASSESSMENT

The exposure assessment estimates the extent of human contact with PCOCs by characterizing potentially exposed populations (i.e., receptors), identifying actual or potential routes of exposure, and quantifying the intake (or dose) of human exposure. The exposure assessment also identifies possible exposure pathways that are appropriate for each potential receptor and exposure scenario and considers the source of contamination and fate and transport properties of the compound and surrounding environment. An exposure pathway typically includes the following elements:

- A source of contaminant and mechanism of contaminant release;
- An environmental retention or transport medium (e.g., air, groundwater, etc.);
- A point of contact with the medium (i.e., receptor or potentially exposed population); and
- A route of human intake (e.g., inhalation, ingestion, etc.).

Each of these elements must generally be present for an exposure pathway to be complete, although it is not necessary that environmental transport occurs when assessing exposure from direct contact. Exposure was evaluated for both current and potential future receptors to allow for evaluation of long-term risk management options.

3.1 POTENTIAL EXPOSURE PATHWAY EVALUATION

The identification of potentially exposed populations (also called receptors) possibly at risk from exposure to PCOCs at the Site is dependent on current and future land uses. The Site is located at 906 Marlin Avenue in Freeport, TX, as shown on Figure 1.

The Site consists of approximately 40 acres within the 100-year coastal floodplain along the north bank of the Intracoastal Waterway between Oyster Creek to the east and the Old Brazos River Channel to the west (Figure 1). Approximately 78 people live within the one square mile area surrounding the Site (EPA, 2005a). Approximately 3,392 people live within 50 square miles of the Site (EPA, 2005a). There are no schools, nursing homes, or other sensitive subpopulations within a mile of the Site. Residential areas are located south of Marlin Avenue, approximately 300 feet west of the Site, and 1,000 feet east of the Site.

3.1.1 Land Use and Pathway Evaluation

Historically, the South Area of the Site was used as a barge cleaning and maintenance facility. The Site currently is unused but it is anticipated that the South Area will be used for commercial/industrial purposes in the future. The South Area includes approximately 20 acres of upland that was created from dredged material from the Intracoastal Waterway. To the west of and directly adjacent to the Site is an unused lot that was formerly a commercial marina. West of that lot, beyond a second vacant lot, is a residential development with access to the Intracoastal Waterway. An active commercial operation is located east of the South Area.

The North Area of the Site contains closed surface impoundments (closed in 1982) and is, for the most part, unused. Some of the North Area is upland created from dredge spoil, but most of this area is considered wetlands (Figure 2) and the wetlands area has never consistently been used. According to the National Wetlands Inventory map for the Freeport Quadrangle, the wetlands on the north of the Site are estuarine, intertidal, emergent, persistent, and irregularly flooded. The upland area of the North Area has been used as a parking lot. Future land use at the North Area is limited given that much of it is considered wetlands and most of the upland part of the North Area consists of the closed former surface impoundments.

3.1.2 Groundwater Use and Pathway Evaluation

Because of high total dissolved solids in Zone A, B, and C groundwater at the Site, the groundwater ingestion and use pathway is incomplete for these three units. Also, as noted previously, restrictive covenants prohibiting groundwater use have been filed for the Site. Based on Site potentiometric and analytical data presented in the NEDR (PBW, 2009), impacted groundwater does not affect surface water at the Site. Thus, the only complete exposure pathway is the volatilization to indoor and outdoor air pathway in areas above impacted groundwater. A restrictive covenant requiring any building design to preclude vapor intrusion has been filed for Lots 55, 56, and 57 where VOC concentrations were measured in relatively high concentrations in Zone A groundwater. Nevertheless, this pathway was conservatively evaluated in the BHHRA.

3.1.3 Surface Water Use and Pathway Evaluation

The Intracoastal Waterway supports barge traffic and other activities. It is one of the main arteries for shipping goods from Freeport's deep-water port to destinations along the Texas Coast and beyond. Fishing boats also use the Intracoastal Waterway to gain access to the fishing grounds in the Gulf of Mexico and the shorelines, tributaries, and marshes of the many Texas Bays. The area near the Site is regularly dredged. The nearby residential areas have canal access to the Intracoastal Waterway.

As noted previously, impacted groundwater does not discharge to surface water at the Site. However, surface water data were collected for the Intracoastal Waterway, as well as surface waters contained in the wetlands and ponds on the North Area to evaluate the potential for contaminants in surface soils to be released to surface water via overland surface runoff. A contact recreation scenario was included in the risk assessment to evaluate risks associated with occasional swimming and wading in surface water of the Intracoastal Waterway, and surface waters on the North Area. Based on the screening evaluation presented in Section 2.2.1, the surface water pathway was eliminated from further consideration since it does not pose an adverse human health risk.

3.1.4 Fish and Shellfish Resources and Pathway Evaluation

As mentioned previously, fishing and crabbing are reported to occur in waters of the Intracoastal Waterway in the general vicinity of the Site. Based on the analytical results for the Intracoastal Waterway sediment samples and in accordance with Section 5.6.8 of the Work Plan, fish tissue samples were collected from four Site zones and one background area within the Intracoastal Waterway. Red drum (*Sciaenops ocellatus*) (6 samples), spotted seatrout (*Cynoscion nebulosus*) (9 samples), southern flounder (*Paralichthys lethostigma*) (9 samples), and blue crab (*Callinectes sapidus*) (9 samples) samples were collected from the Site for laboratory analysis. Samples of these species were also collected from the background area and were archived.

The Site fish tissue samples (fillet samples for finfish, edible tissue for crabs) were analyzed for 12 COIs, based on Intracoastal Waterway sediment data, in accordance with EPA's November 14, 2006 letter. The only COIs with concentrations measured above sample detection limits in any of the 33 samples were silver (detected in four samples), benzo(b)fluoranthene (detected in two samples), and 4,4'-DDE (detected in two samples). The fish tissue data were used to calculate potential risks associated with exposure to Site COIs via the fish ingestion pathway to recreational anglers fishing at the Site, or their

families. This risk assessment (presented in a March 20, 2007 letter to EPA) concluded that the fish ingestion pathway does not pose a human health threat (PBW, 2007). That conclusion was subsequently approved in a June 29, 2007 letter from EPA.

In addition, shellfish harvesting is banned by the Texas Department of Health Services, Seafood Safety Division in all waterbodies from an area about two miles east of the Site, to well beyond the Brazos River inlet, about 7 miles west of the Site. The ban has been enacted because of poor conditions and water quality. It should be noted, however, that risk from shellfish consumption harvested from the area if allowed would most likely not pose a human health risk, since exposure would be similar if not the same as for the fish and crab ingestion pathway.

For the reasons described above, the fish/shellfish pathways were not evaluated further in this risk assessment. The pathway was included in the Conceptual Site Model as discussed in Section 3.3 below.

3.2 POTENTIALLY EXPOSED POPULATIONS

Based on current and reasonable future land use, potentially exposed populations for the South Area include: 1) future commercial/industrial workers and 2) future construction workers at the Site. A youth trespasser was also evaluated since, although the South Area perimeter is fenced, this area could still be accessed by a trespasser via the Intracoastal Waterway. Soil is the primary media of concern for these receptors. A future indoor air exposure pathway was evaluated for the commercial/industrial worker since volatile organic compounds (VOCs) were detected in Zone A groundwater. Additionally, a contact recreation scenario was assessed for surface water and sediment in the Intracoastal Waterway to represent a hypothetical person who occasionally contacts these media while swimming, wading, or participating in other recreational activities. Potential impacts from fugitive dust generation and VOC emissions, and subsequent exposure to nearby residents were also considered in the BHHRA.

Based on current and reasonable future land use, potentially exposed populations include future commercial/industrial workers and future construction workers at the Site. A youth trespasser was also evaluated since this area is not fenced. Soil is the primary media of concern for these receptors. A future indoor air exposure pathway was evaluated for the commercial/industrial worker since VOCs were detected in Zone A groundwater. Additionally, a contact recreation scenario was assessed for surface water and sediment in the wetlands and ponds of the North Area to represent a hypothetical receptor who occasionally contacts these media while wading, birding, or participating in other recreational activities.

Given the frequently saturated nature of the wetlands sediment and the abundant vegetation on the uplands portion of the North Area, fugitive dust generation and VOC emissions, and off-site impacts were not considered.

Table 18 summarizes the various exposure scenarios evaluated in the BHHRA by media. While exposure might occur at the background locations, exposure and potential risks for background areas were not evaluated in the BHHRA.

3.3 CONCEPTUAL SITE MODELS AND POTENTIALLY COMPLETE EXPOSURE PATHWAYS

A conceptual site model (CSM) identifies exposure pathways for potentially complete pathways at the Site and describes the process or mechanism by which human receptors may reasonably come into contact with Site-related constituents. A CSM was developed as part of the Work Plan (PBW, 2006a) to focus the data collection activities of the RI so that analytical data could support a risk-based analysis. These preliminary CSMs were included as Figures 7 and 8 in the Work Plan (PBW, 2006a) and summarized exposure to the North Area and South Area, respectively.

Figures 4 and 5 of the BHHRA provide revised CSMs for the South and North Areas, respectively, which were refined to reflect current information about the Site. These revised CSMs were used to develop the quantitative exposure assessment of the BHHRA. Complete pathways are indicated with a bold line and check in the potential receptors column. Incomplete pathways are denoted with an "X" and a footnote indicating why the pathway is incomplete.

At the South Area, PCOCs were potentially released from historical Potential Source Areas (PSAs) to the soil and may have migrated to groundwater via leaching through the soil column, and to surface water in the Intracoastal Waterway via overland surface runoff. Once in surface water, some compounds tend to stay dissolved in the water whereas some tend to partition to sediment. Volatilization and fugitive dust generation may have caused PCOCs in soil to migrate within the Site or off-site. Exposure to on-site receptors may also occur directly from contact to the soil. However, based on PCOC data for surface soil samples collected on Lots 19 and 20 directly west of the Site (see Section 2.4.2 of the NEDR for detailed discussion of these data (PBW, 2009)), it does not appear that significant entrainment and subsequent deposition of particulates occurred at the Site or at off-site locations. Once in groundwater, VOCs may

migrate with the groundwater and/or volatilize through the soil pore space and be emitted into outdoor or indoor air.

At the North Area, PCOCs were potentially released from historical PSAs to the soil and/or may have migrated to groundwater. PCOCs may have also migrated from soil to surface water and sediments in the nearby wetlands area via overland surface runoff. Because of the high moisture content and the vegetated nature of the limited surface soils in the North Area, fugitive dust generation is not considered a significant transport pathway for PCOC migration. Once in groundwater, VOCs may migrate with the groundwater and/or volatilize through the soil pore space and be emitted into outdoor or indoor air.

It was assumed, as part of the risk assessment, that these media were potentially contacted by the various hypothetical receptors possibly at the Site and, as such, these exposure pathways were potentially complete. The remainder of this section describes how exposure was quantified for each of these complete exposure pathways.

3.4 QUANTIFICATION OF EXPOSURE

In keeping with EPA guidance (EPA, 1992c), the goal of the exposure assessment was to provide a reasonable, high-end (i.e., conservative) estimate of exposure that focuses on potential exposures in the actual population. This concept is termed the reasonable maximum exposure (RME) approach. This should not be confused with: (1) a worst-case scenario which refers to a combination of events and conditions such that, taken together, produces the highest conceivable exposure; or (2) a bounding estimate that purposefully overestimates exposure (EPA, 1992c). Thus, in accordance with EPA guidance, site-specific exposure assumptions and parameters were used when available and, when not available, assumptions were deliberately chosen to represent a high-end RME estimate (EPA, 1989). A central tendency or average scenario was also evaluated to provide a range of exposures.

Chemical exposure is quantified by the calculation of an intake, or dose, that is normalized to body weight and exposure time of the receptor. A dose is calculated by combining assumptions regarding contact rate (intake amount and time, frequency and duration of exposure) to a contaminated medium with representative chemical exposure point concentrations for the medium of concern at the point of contact. Receptors are chosen based on their exposure patterns that may put them at risk or at a higher risk than other individuals. Intake assumptions, in general, were based on central tendency or RME assumptions determined by EPA (1989; 1991a), or were based on information obtained from site-specific

studies. Reasonable maximum exposure scenarios use a combination of assumptions, such as average values for physical characteristics of the receptors (body weight and corresponding body surface area), UCL values (values at the 90 or 95 percentile of the distribution) for contact rate, and UCL on the mean (95 percent UCL) for the exposure point concentrations. The combination of these factors is assumed to provide an upper-bound estimate of exposure and risk to that particular receptor.

The intake or dose of a particular compound by a receptor is quantified with the generic equation below (EPA, 1989):

$$I = \frac{C \times CR \times EFD}{BW} \times \frac{1}{AT}$$
 (Equation 1)

where:

I = the compound intake or dose (mg/Kg BW-day); C = the compound concentration (mg/Kg or mg/L);

CR = contact rate or the amount of contaminated medium contacted per event

(L/day or mg/day);

EFD = the frequency (days/year) and duration (number of years) of exposure days;

BW = the average body weight of the receptor (Kg); and

AT = averaging time of the exposure (days); for noncarcinogens, AT equals

(ED) x (365 day/year); for carcinogens, AT equals (70

years over a lifetime) x (365 day/year).

This equation calculates an intake that is normalized over the body weight of the individual and the time of the exposure. Because the intake or dose is combined with quantitative indices of toxicity (chemical-specific dose-response information such as reference doses (RfDs) for noncarcinogenic compounds or cancer slope factors (CSFs) for carcinogenic compounds, which is discussed further in Section 4.0) to give a measure of potential risk, the intake or dose must be calculated in a manner that is compatible with the quantitative dose-response information for chemical constituents evaluated in the analysis. Two different types of health effects are considered in this analysis: 1) carcinogenic effects and 2) noncarcinogenic effects (either chronic or subchronic, depending on the receptor's exposure).

For carcinogenic effects, the relevant intake is the total cumulative intake averaged over a lifetime because the quantitative dose-response function for carcinogens is based on the assumption that cancer results from chronic, lifetime exposures to carcinogenic agents. This intake or dose is then averaged over a lifetime to provide an estimate of intake or dose to carcinogens as (mg/Kg-day), which is expressed as a lifetime average daily dose (LADD). Thus, for potentially carcinogenic compounds, the averaging time (AT) is equal to 70 years (EPA, 1989).

Noncarcinogenic effects are evaluated for chronic, subchronic, or acute exposures by receptors to systemic or reproductive toxicants. For noncarcinogenic effects, the relevant intake or dose is based on the daily intake averaged over the exposure period of concern. As defined in EPA guidance (EPA, 1989), an exposure period for toxicity can be either acute (exposure occurring from one event or over one day), subchronic (cumulative exposures occurring from two weeks up to seven years), or chronic (cumulative exposure over seven years to a lifetime in duration). The quantitative dose-response function for noncarcinogenic effects (chronic and subchronic) is based on the assumption that effects occur once a threshold dose is attained from repeated exposure. Therefore, the intake or dose for noncarcinogenic risk assessment is based on an average daily dose (ADD) that is averaged over the duration of exposure. The averaging time for assessing noncarcinogenic effects is equal to the exposure duration for the receptor. In the BHHRA, exposure was assumed to be chronic for all receptors even though some exposures described in this report were intermittent or less than chronic duration.

3.4.1 Estimating the Exposure Point Concentration

The general procedure that is recommended by EPA to estimate a 95% UCL (EPA, 2002b) was used as the EPC to represent the upper end of exposure. EPA's ProUCL Version 4 program (EPA, 2007) was used to analyze dataset distribution and calculate average and 95% UCL concentrations. ProUCL calculates various estimates of the 95% UCL of the mean, and then makes a recommendation on which one should be selected as the best UCL estimate. If the 95% UCL was greater than the maximum detected concentration, the maximum measured concentration was used as the exposure point concentration (EPA, 2002b).

Appendix A provides the ProUCL output when there were sufficient samples to run statistics (soil and sediment). It should be noted that when evaluating exposure from fugitive dust generation, the exposure point concentration was based on surface soil data because it is unlikely that deeper soils (i.e., soils below a depth of 0.5 ft) are transported as wind-borne dust. One-half of the SDL was used for sample measurements below the SDL. There were not enough pond sediment or surface water samples for statistical calculations so average and maximum measured concentrations were used in the evaluation for these media.

Both averages and 95% UCLs were used in the BHHRA to provide a range of exposure point concentrations and are summarized in Tables 1 through 15. The dose estimates using the 95% UCL EPC

were considered to represent reasonable maximum exposure (RME). The average was used to represent the average or central tendency exposure.

3.4.2 Quantifying Intake

To quantify potential exposures associated with the pathways of potential concern, Equation 1 is modified according to the specific exposure routes and intake assumptions.

Incidental Ingestion of Soil. The intake or dose for the incidental ingestion pathway from soil is calculated based on the following equation (EPA, 1989):

$$ADD_{ing} = \frac{Conc_{soil} \times IR \times FI \times AAF \times EF \times ED \times CF}{BW \times AT}$$
 (Equation 2)

where:

ADD_{ing} = average daily intake of compound via ingestion of soil (mg/Kg BW-day);

 $Conc_{soil}$ = exposure concentration in soil (mg/Kg);

IR = ingestion rate (mg soil/day);
FI = fraction ingested (unitless);

AAF = absorption adjustment factor (fraction absorbed);

EF = exposure frequency (days/year);

ED = exposure duration (years);

 $CF = conversion factor (10^{-6} \text{ Kg/mg});$

BW = body weight (Kg); and AT = averaging time (days).

The exposure concentration in the soil $(Conc_{soil})$ is the concentration of a PCOC at the point of contact. Exposure point concentrations represent random exposure over the exposure unit and were discussed in greater detail in the Section 3.4.1. The ingestion rate (IR) is the amount of soil incidentally ingested per day or event. For soil, the incidental intake values vary according to the receptor and the specific activities or exposure patterns that the receptor is engaged in at the Site.

The fraction ingested (FI) relates to the fraction of soil that is contacted daily from the contaminated area. This is highly dependent on the different activities that an individual is engaged in and the number of hours (fraction of time) spent in the contaminated portions of the site (EPA, 1989). The fraction ingested

was conservatively assumed to be 100 percent. The absorption adjustment factor (AAF) is used in the ingestion pathway to account for differences in relative absorption for the chemical from the test vehicle versus the exposure medium (i.e., soil) and was assumed to be 1.0 unless compound-specific data were available to suggest otherwise. (The test vehicle is the material (e.g., soil, food, or solvent) in which the chemical was administered in the toxicity study.) Body weight (BW) varies according to the age range of the receptor. Adult receptors are assumed to weigh 70 kilograms (Kg), which corresponds to the 50th percentile value for all adults, as recommended by EPA (1989). For receptors other than adults, body weight is dependent on the age of the receptor and is calculated as the time-weighted average body weight using values reported by the *Exposure Factors Handbook* (EPA, 1997a). The exposure frequency (EF) and duration (ED) of the event is based on the particular exposure pattern and activity related to the receptor (EPA, 1997a). The averaging time is 70 years for carcinogenic effects, and for noncarcinogenic effects depends on the frequency and duration of exposure for the particular receptor (EPA, 1989; 1991a).

Dermal Contact with Soil. When calculating intake via dermal contact with soil or sediment, Equation 1 is modified slightly to account for skin surface area, soil-to-skin adherence factors, and chemical-specific absorption factors. An intake or dose is quantified from dermal contact with the equation (EPA, 1989):

$$ADD_{der} = \frac{Conc_{soil} \times SA \times AF \times AAF \times EF \times ED \times CF}{BW \times AT}$$
 (Equation 3)

where:

 ADD_{der} = average daily dose from dermal contact with chemical in soil (mg/Kg-day);

 $Conc_{soil}$ = exposure concentration in soil (mg/Kg);

SA = skin surface area available for direct dermal contact (cm²/event);

AF = soil/sediment to skin adherence factor (mg/cm²);

AAF = absorption adjustment factor (unitless)

EF = exposure frequency (days or events/year);

ED = exposure duration (years)

 $CF = conversion factor (10^{-6} \text{ Kg/mg});$

BW = body weight (Kg); and AT = averaging time (days).

The exposed skin surface area (SA) is the area or portion of the body exposed for dermal contact. As with many exposure variables, surface area depends on the age and exposure pattern that the receptor is engaged in that relate to repeated or average exposure. Surface area can be predicted based on factors such as activity and types of clothing. Typical exposures via dermal contact for most receptors are generally limited to certain parts of the body (e.g., hands, forearms, head, and neck) since clothing tends to significantly reduce the potential for direct contact with soil (Kissel, 1995). The soil adherence factor (AF) is the density of soil adhering to the exposed fraction of the body. The adherence factor is highly

dependent on the specific activity of the receptor as well as physical properties of the soil (e.g., moisture content, textural class, and organic carbon content) (Kissel et al., 1996). The AAF accounts for the relative absorbance of a chemical between dermal exposure from the environmental medium and oral exposure in the critical toxicity study, which was used to derive the dose-response information for that chemical. Therefore, the AAF is highly chemical-specific and, unless otherwise noted, was assumed to be 1.0. Factors such as body weight, exposure frequency, exposure duration, and averaging time are similar to that discussed above for incidental ingestion.

Inhalation of Volatiles and Fugitive Dusts. An intake or dose from inhalation of vapors or particles emitted from the Site is calculated by modifying Equation 1 to account for the volatilization and/or particulate emission factor and the difference in methodology when evaluating air impacts (i.e., dose was not calculated, but rather an effective air concentration that the receptor may be exposed to was calculated). An effective air concentration was generally calculated using the following equation:

$$EAC = \frac{Conc_{soil} \times VF \times EF \times ED}{AT}$$
 (Equation 4)

where:

EAC = effective air concentration (mg/m^3) ;

 $Conc_{soil}$ = exposure point concentration in soil (mg/Kg);

VF = volatilization factor (mg/m³-air/Kg-soil) and/or particulate emission factor:
EF = exposure frequency; describes how often exposure occurs (days/year);
ED = exposure duration; describes how long exposure occurs (years); and
AT = averaging time; period over which exposure is averaged (days).

A risk assessment from inhalation of volatiles and dusts is different from the quantification of potential risks from dermal contact or incidental ingestion. Risks from inhalation exposure are based on a comparison of a measured or calculated air concentration (effective air concentration) to a risk-based acceptable air concentration, either a reference concentration (RfC) or an inhalation unit risk (IUR) value. Where monitoring data do not exist, an exposure point concentration in air can be calculated based on a volatilization model and/or particulate emissions factor and the exposure point concentration in soil. Surface soil data were used when estimating the air concentration for particulate dust generation.

3.4.3 Exposure Assumptions and Intake Calculations

The exposure assumptions are provided in Tables 19, 20, 21, and 22 for the industrial worker, construction worker, youth trespasser, and contact recreation receptors, respectively. References for the

various assumptions are provided in the tables and citations are listed in Section 8.0. Appendix C provides the detailed spreadsheets for the intake calculations for the different receptors for the South and North Areas of the Site.

Instead of employing a highly uncertain particulate emission factor and fugitive dust dispersion model to evaluate off-site exposure, potential risks from South Area soil to the nearby off-site residential receptor were conservatively evaluated using the residential PCL for 30-acre source area for the soil-to-air pathway (inhalation of volatiles and particulates). Maximum measured concentrations of PCOCs in South Area soils were compared to their respective PCLs as shown in Table 23 and 24. Based on this comparison, it is unlikely that PCOCs contained in soil at the South Area of the Site were emitted off-site at deleterious concentrations.

3.4.4 <u>Vapor Intrusion Pathway for Future On-Site Worker Scenarios</u>

Except for an aboveground storage tank (AST) tank farm, a dry dock, and a former transformer shed, there are currently no structures present on the South or North Areas at the Site. However, future development of the area may result in construction of buildings at the Site. In the event that permanent and enclosed structures are built on-Site in the future, the Johnson and Ettinger Vapor Intrusion Model (J&E VIM) (EPA, 2002a) was used to assess the potential migration of volatile chemicals from groundwater into the breathing space of an overlying building. Exposure estimates are calculated in the model using default exposure parameters for an industrial worker similar to those provided in Table 19 and site-specific soil and hydrogeologic properties. While a construction worker could also be exposed to VOCs migrating from groundwater to outdoor air, that exposure and risk scenario was not calculated separately since it is likely to be less than the industrial worker's exposure under the indoor air scenario since there would be greater dispersion and mixing in the ambient outdoor air that a construction worker would encounter (no dispersion and mixing is assumed with the J&E VIM), and because the construction worker's exposure frequency and duration is less than the industrial worker's.

The input parameters used to run the J&E VIM Version 3.1 followed EPA guidance on the subject and recommended values (EPA, 2002a) that are available on-line at

<u>www.epa.gov/oswer/riskassessment/airmodel/johnson_ettinger.htm</u></u>. Site-specific input variables used in the model are described below. The model was only run for those compounds that are considered volatile since non-volatile compounds would not migrate from the groundwater to the overlying soil pore space and to ambient air via this pathway. As noted previously, a restrictive covenant is currently in place for

Lots 55, 56, and 57 and requires any building design to preclude vapor intrusion. Thus, this evaluation represents a conservative assessment of the vapor intrusion pathway for these lots.

The site-specific variables used in the J&E model were determined from information gathered during previous Site investigation and presented in the NEDR (PBW, 2009). Depth below grade to the bottom of a hypothetical enclosed space floor was assumed to be 15 cm, or the thickness of a typical slab (basement construction was not considered due to the geographic location of the Site). Depth below grade to the water table was conservatively estimated to be 5 feet (152 cm) based on water gauging data from both North and South Area monitoring wells. Clay (USCS code CL) was selected as the soil type directly above the water table, which is the dominant soil type in shallow soils at both the North and South Areas as indicated on the boring logs provided in NEDR (PBW, 2009). The average soil/groundwater temperature used in the model was 25° C based on the geographical location of the site and regional climatic conditions.

Both average and RME EPCs were used in the calculations to provide a range of exposure and potential risks. These values are listed in Tables 25 and 26. Estimated risks are provided and discussed in Section 5.0.

4.0 TOXICITY ASSESSMENT

The toxicity assessment provides a description of the relationship between a dose of a chemical and the anticipated incidence of an adverse health effect (Preuss and Ehrlich, 1987 and EPA, 1989). The purpose of the toxicity assessment is to provide a quantitative estimate of the inherent toxicity of PCOCs to incorporate into the risk characterization. Toxicity values are derived from the quantitative dose response association and are correlated with the quantitative exposure assessment in the risk characterization.

For risk assessment purposes, toxic constituent effects are separated into two categories of toxicity: carcinogenic effects and noncarcinogenic effects. This division relates to the EPA policy that the mechanisms of action for these endpoints differ. Generally, the EPA has required that potentially carcinogenic chemicals be treated as if minimum threshold doses do not exist (EPA, 1986), whereas noncarcinogenic effects are recognized to have a threshold below which toxicity is unlikely.

4.1 EXPOSURE ROUTE-SPECIFIC TOXICITY CRITERIA

In deriving toxicity criteria, EPA methodologies consider the route of administration (or exposure) of the test chemical in toxicity or epidemiological studies. Typically oral RfDs and oral CSFs are derived from toxicity studies with oral administration or exposure route, and RfCs or inhalation unit risks are derived from inhalation toxicity studies. While one could attempt to extrapolate an inhalation toxicity criterion to the oral pathway or visa versa, this practice is not recommended because there can be a great deal of uncertainty introduced (EPA, 1989). Therefore, in the BHHRA, oral RfDs were not extrapolated to provide toxicity values for inhalation pathways. Quantitative risk evaluation of the inhalation exposure pathways was conducted only for those chemicals that have reference toxicity values specifically from inhalation administration.

On the other hand, EPA has not derived specific toxicity criteria for the dermal exposure pathway. This presents a complication because oral and inhalation toxicity criteria are based on administered dose and not absorbed dose while dermal exposure pathways consider the absorbed dose (i.e., how much of the chemical in soil or water crosses the skin barrier and is absorbed by the body). Per EPA (1989), the oral RfD or oral CSF can be applied in evaluation of the dermal exposure pathway following adjustment of the oral toxicity criteria for gastrointestinal absorbance. In later guidance (EPA, 2004b), EPA recommends adjusting oral toxicity criteria by gastrointestinal absorbance factors if gastrointestinal absorbance of the chemical in the vehicle of administration in the critical study is less than 50 percent. Generally, organic

chemicals are assumed to be relatively bioavailable in oral and gavage toxicity studies and, thus, the administered dose is likely to be similar to absorbed dose. Therefore, no adjustment of oral toxicity criteria is recommended for organic PCOCs (EPA, 2004b). EPA recommends adjusting oral toxicity criteria for a number of inorganic constituents based on the possibility of low gastrointestinal absorbance in the critical study as shown in Exhibit 4-1 of the associated guidance (EPA, 2004b). It should be noted that none of the PCOCs quantitatively evaluated in the BHHRA are recommended for the adjustment described above.

4.2 CARCINOGENIC EFFECTS

Potential carcinogenic effects resulting from human exposure to constituents are estimated quantitatively using cancer slope factors (CSFs), which represent the theoretical increased risk per milligram of constituent intake/kilogram body weight/day (mg/Kg-day)⁻¹ or unit risks, which are the theoretical increased risks per exposure concentration. CSFs or unit risks are typically derived for "known or probable" human carcinogens. CSFs or unit risks are used to estimate a theoretical upper-bound lifetime probability of an individual developing cancer as a result of exposure to a particular lifetime daily dose of a potential carcinogen. Constituents that are believed to be carcinogenic may also have non-cancer effects. Potential health risks for these constituents are evaluated for both cancer and other types of effects as described below.

4.3 NONCARCINOGENIC EFFECTS

Unlike carcinogenic effects, it is widely accepted that noncarcinogenic biological effects of chemical substances occur only after a threshold dose is achieved (Klaassen et al., 2007). This threshold concept of noncarcinogenic effects assumes that a range of exposures up to some defined threshold can be tolerated without appreciable risk of harm. Adverse effects may be minimized at concentrations below the threshold by pharmacokinetic processes, such as decreased absorption, distribution to non-target organs, metabolism to less toxic chemical forms, and excretion (Klaassen et al., 2007).

Reference dose (RfD) values and reference concentrations (RfCs) are developed by the EPA RfD Work Group on the basis of a wide array of noncarcinogenic health effects. The RfD and RfC are estimates of the daily maximum level of exposure to human populations (including sensitive subpopulations) that are likely to be without an appreciable risk of deleterious effects during a lifetime (EPA, 1989). RfDs are expressed in units of daily dose (mg/Kg-day) while RfCs are expressed as an air concentration (mg/m³). Both incorporate uncertainty factors to account for limitation in the quality or quantity of available data.

4.4 SOURCES OF TOXICITY CRITERIA

There are a variety of toxicity databases that regulatory agencies rely on for the purposes of quantifying the toxicity of chemicals in the environment. Per EPA (1989 and 2003), the primary source (i.e., "Tier 1") for toxicity information in the risk assessment should be EPA's Integrated Risk Information System (IRIS) (EPA, 2008). According to a recent OSWER directive (EPA, 2003), that revises the human health toxicity value hierarchy, if RfDs for noncarcinogenic compounds and CSFs for possible carcinogens are not available in IRIS, the "Tier 2" toxicity resource is the EPA's database of Provisional Peer Reviewed Toxicity Values for Superfund (PPRTV). The "Tier 3" resources that can be consulted if IRIS and PPRTV databases lack relevant toxicity criteria include the Health Effects Assessment Summary Tables (EPA, 1997b) and the Centers for Disease Control's Agency for Toxic Substances and Disease Registry (ATSDR) Minimal Risk Levels (MRLs).

The toxicity criteria used in the BHHRA are provided in Appendix D, along with the risk calculations. All toxicity values were obtained from EPA's IRIS on-line database, as accessed during December 2008.

5.0 RISK CHARACTERIZATION

Risk characterization is the integration of the exposure and toxicity information to make quantitative estimates and/or qualitative statements regarding potential risk to human health. This section describes the risk characterization process for carcinogenic and noncarcinogenic PCOCs.

5.1 POTENTIAL CARCINOGENIC RISKS

Potential carcinogenic effects are characterized in terms of the excess probability of an individual developing cancer over a lifetime as a result of exposure to a potential carcinogen. For chemicals that exhibit carcinogenic effects, EPA has developed a model that is based on the theory that one or more molecular events as a result of exposure to a potential carcinogenic compound can evoke changes in a single cell or a small number of cells that can lead to tumor formation. This non-threshold theory of carcinogenesis suggests that any level of exposure to a carcinogen can result in some finite possibility of generating the disease. It should be noted that this is a very conservative approach and EPA's more recent Guidelines for Cancer Risk Assessment (EPA, 2005b) recognize that there are "threshold" carcinogens as well.

To characterize the potential for carcinogenic effects, a lifetime average daily dose (LADD) is combined with a CSF to calculate a probability that an individual would develop cancer over a lifetime of exposure to a specific PCOC, with the following equation:

$$Risk = LADD \times CSF$$
 (Equation 5)

All risk estimates are summed for the receptor by media to provide a theoretical excess lifetime cancer risk. Theoretical excess lifetime cancer risks are evaluated based on an acceptable cancer risk range of 1 x 10^{-6} to 1 x 10^{-4} . EPA (1991b) indicates that carcinogenic effects at a site should first be evaluated based on the 1 x 10^{-4} cancer risk levels, but depending on site-specific conditions, a range of 1 x 10^{-6} to 1 x 10^{-4} may be used. Typically, cancer risks less than 1 x 10^{-6} are considered *de minimis* and acceptable while cancer risks less than 1 x 10^{-4} are considered acceptable (EPA, 1991b).

The BHHRA evaluated site-specific exposures based on realistic current and possible future land use. All cancer risk estimates fell within the EPA cancer risk range of 10^{-6} to 1×10^{-4} or less, except for the industrial worker scenario at the North Area. Exposure from the vapor intrusion pathway for PCOCs in

groundwater for a hypothetical industrial worker employed in a building sited at the North Area resulted in a cancer risk greater than 1×10^{-4} , as shown in Table 26. Table 27 provides a summary of the cancer risk estimates for each scenario using average and RME assumptions for the soil pathways. Detailed spreadsheets containing the risk calculations are provided in Appendix D by scenario and media.

5.2 POTENTIAL NONCARCINOGENIC HAZARD QUOTIENTS

For noncarcinogenic compounds, a potential hazard is expressed as a hazard quotient (HQ), which is the ratio of the average daily dose (ADD) for a site-specific receptor to an acceptable dose (or RfD) for that compound. The HQ is calculated as follows

$$HQ = ADD/RfD$$
 (Equation 6)

An RfD is developed with the assumption that the degree of toxicity of noncarcinogenic compounds is based on the ability of organisms to repair and detoxify after exposure to a compound. The repair and detoxification mechanisms must be exceeded by some critical concentration (threshold) before the health effect is manifested. This threshold view holds that a range of exposures from just above zero to some finite value (i.e., the RfD) can be tolerated by an individual without an appreciable risk of adverse effects.

HQs are summed for all chemical intakes to yield a hazard index (HI) for each exposure pathway. An HI equal to or less than 1 indicates that no adverse noncarcinogenic health effects are expected to occur from cumulative exposure to multiple chemicals and exposure pathways. An HI greater than 1 provides an indication that such effects may occur, especially in sensitive subpopulation, but does not provide a prediction of the severity or probability of the effects. An HI above 1 indicates the need for further evaluation. For example, effects of different chemicals are not necessarily additive (although the HI approach assumes additivity), nor do all chemicals affect the same target organ. Thus, EPA recommends that if an HI exceeds 1, further evaluation should occur to categorize hazards based on chemical-specific and route-specific toxicity (e.g., which chemicals act on the same target organ, by which route of entry, etc.) (EPA, 1989).

The BHHRA evaluated site-specific exposures based on realistic current and possible future land use. Table 27 provides a summary of the HIs for each scenario using average and RME assumptions for the soil pathways. None of the HIs for the soil exposure pathways exceeded EPA's target hazard index of 1. Exposure from the vapor intrusion pathway from PCOCs in groundwater for a hypothetical industrial

worker employed in a building sited at the North Area resulted in an HI greater than 1, as shown in Table 26. Detailed spreadsheets containing the risk calculations are provided in Appendix D by scenario.

It should be noted that due to lead's unique toxicological properties, noncancer risk estimates could not be calculated similarly to the other noncarcinogenic PCOCs. However, none of the measured concentrations of lead in Site soil exceeded EPA's screening level for industrial properties of 800 mg/kg (EPA, 2004a). Thus, it is unlikely that lead at the Site poses an unacceptable risk.

5.3 CONTACT RECREATION SCENARIO

Exposure to sediment and surface water by the youth trespasser and contact recreation receptor were evaluated using TCEQ contact recreation PCLs for these media. None of the PCOCs detected in these media exceeded their respective PCLs (see Tables 4, 5, 6, 7, 11, 12, 13, and 14). As such, exposure to PCOCs in these media is unlikely to result in an adverse health risk.

5.4 OFF-SITE RESIDENTIAL SCENARIO

Off-site residential receptor risks were estimated by comparing PCOC concentrations in on-Site soil samples to their respective TCEQ's PCLs that were developed to evaluate exposure to air emissions from particulate dust and VOCs emitted from contaminated soil. This approach is conservative since diluting effects of off-site migration and dispersion were not considered. Even so, unacceptable risks are not expected since none of the compounds measured in South Area soils exceeded the screening criteria (see Tables 23 and 24).

5.5 FUTURE ON-SITE INDUSTRIAL WORKER VAPOR INTRUSION PATHWAY RISK ESTIMATES

The average groundwater concentration and RME EPC established for each compound at the South and North Areas was entered into the J&E VIM to determine the "Incremental Risk from Vapor Intrusion to Indoor Air, Carcinogen (unitless)" and "Hazard Quotient from Vapor Intrusion to Indoor Air, Noncarcinogen (unitless)". The results of this evaluation are presented in Tables 25 and 26 for the North Area and South Area, respectively, and suggest that, under the conservative assumptions of the J&E VIM, a potential unacceptable risk is likely at the North Area in the event that a building is constructed over the

Zone A groundwater plume and vapor intrusion occurs similar to the model's predictions. As noted previously, this conservative evaluation does not consider the restrictive covenants for Lots 55, 56, and 57 that require building design to exclude vapor intrusion.

6.0 UNCERTAINTY ASSESSMENT

Uncertainties are inherent in every aspect of a quantitative risk assessment. The inclusion of site-specific factors can decrease uncertainty, although significant uncertainty persists in even the most site-specific risk assessments. Worst-case assumptions and default values, which conform to EPA guidance (EPA, 1989), add conservatism to human health risk assessments. This conservatism is intentionally included in order to tilt the assessment toward over-prediction of risk and hence protection of human health. Therefore, it is important to the risk management decision-making process that the sources of uncertainty are provided.

A careful and comprehensive analysis of the critical areas of uncertainty in a risk assessment is an important part of the risk assessment process. EPA guidance (EPA, 1989) stresses the importance of providing a complete analysis of uncertainties so that risk management decisions take these uncertainties into account when evaluating risk assessment conclusions. The uncertainty analysis provides a context for better understanding the assessment conclusions by identifying the uncertainties that have most significantly affected the assessment results. Therefore, sources of uncertainty in the identification of PCOCs, exposure assessment, and toxicity assessment sections of the risk assessment report are identified and qualitatively evaluated in this section.

6.1 DATA ANALYSIS UNCERTAINTIES

Data collected at the Site satisfied the goals described in the Work Plan (PBW, 2006a) and, thus, adequately characterized the nature and extent of contamination at this Site. As described in the NEDR (PBW, 2009), hundreds of samples of soil, sediment, groundwater and surface water were collected at the South Area, North Area, Intracoastal Waterway, and background soil, sediment, and surface water locations. Characterization was initially conducted for the entire Site and continued at certain areas if a screening level was exceeded.

Overall, the data were determined to be of high quality. Data were collected and analyzed in accordance with approved procedures specified in the FSP (PBW, 2006b) and were validated in accordance with approved validation procedures specified in the QAPP (PBW, 2006c). Very few of the data for any of the analytes were found to be unusable (i.e., "R-flagged"). In instances where data were unusable, the analysis was conducted again (when possible) and the R-flagged data was not used. Some of the data are qualified (i.e., "J-flagged") as estimated because the measured concentration is above the sample

detection limit but below the sample quantitation limit and/or due to minor quality control deficiencies. According to the *Guidance for Data Useability in Risk Assessment (Part A)* (EPA, 1992b), data that are qualified as estimated can be used for risk assessment purposes. Data quality was discussed in greater detail in the NEDR (PBW, 2009).

6.2 EXPOSURE ANALYSIS UNCERTAINTIES

The RAGS (EPA, 1989) risk assessment approach to exposure assessments generally requires standard hypothetical exposure scenarios rather than realistic site-specific evaluation of exposure, and this conservative default approach was used for the future industrial and construction worker scenarios. Under this approach, if a chemical is found to be present at a site, it is assumed that exposure to that chemical will occur regardless of whether that exposure is realistic or likely. Uncertainties associated with the exposure assessment included calculation of EPCs and selection of exposure parameters. For example, the intake equations are based on several 95th percentile values. When multiplied together, these data compound the uncertainties in the exposure assessments and result in estimated intakes (and resultant cancer risks) that likely estimate exposure well over the 95th percentile.

It is difficult to assess the likelihood of any of the hypothetical future scenarios occurring (i.e., future construction worker or future industrial worker) nor is it possible to know the extent, if any, that trespassers and contact recreation receptors are exposed to PCOCs at the Site. It was assumed that the youth trespasser accesses the Site once a week for twelve years. It was assumed that the contact recreation scenario receptor visits the Site for 39 times per year for 25 years. The exposure assumptions used for all scenarios were chosen to purposefully overestimate exposure in order to err on the side of protection. For the current scenarios (i.e., the youth trespasser and the contact recreation scenario) it appears that these represent a bounding estimate since exposure is likely to be much less.

The screening conducted to evaluate off-site impacts from particulate dust generation and VOC emissions and migration was very conservative because it did not assume any dispersion during transport. Despite that very conservative assumption, no adverse risks to off-site residents were likely.

Soil ingestion rates for adults and older youth are highly uncertain. Because the ingestion rate is a very sensitive parameter in the intake equation, uncertainty and variability in this assumption has a large impact on the dose estimate. This is especially relevant for the construction worker scenario when an

enhanced ingestion rate was used. The uncertainty related to this value is tremendous given the study design, small study population, and limited exposure length that are the basis for the soil ingestion rate.

Assumptions regarding bioavailability of metals in soil can significantly influence risk estimates. EPA typically assumes that the bioavailability of compounds from soil is equal to that observed in the toxicity studies used to derive oral toxicity factors but this is most often not the case. Rather, toxicity studies are often, if not always, conducted using a concentration of a compound in either food or water. Bioavailability was assumed to be 100% (i.e., AAF was 1.0) although it is well known that metals and some organic compounds bound to soil are less than 100% bioavailable. This assumption leads to an overestimation of risks, which can be significant.

For surface water, groundwater, and sediment in the ponds, maximum concentrations were selected as the EPC for purposes of evaluating human health risks. This is likely to be a conservative approach since there were other, lower concentrations, also measured for these media.

6.3 TOXICITY ASSESSMENT UNCERTAINTIES

The studies/basis for the toxicity information and the use of this information generate uncertainty. Toxicity assessments for many of the PCOCs in the BHHRA involve the extrapolation of results from studies on animals. The following are standard assumptions applied by the EPA when extrapolating the results of studies of carcinogenicity in animals to humans.

- Any constituent showing carcinogenic activity in any animal species will also be a human carcinogen.
- There is no threshold dose for carcinogens.
- The results of the most sensitive animal study are appropriate to apply to humans.
- Humans are more sensitive than the most sensitive animal species on a body weight basis.

Uncertainties are introduced in animal to human extrapolation and high to low dose extrapolation. Mathematical models are used by EPA to estimate the possible responses due to exposure to chemicals at levels far below those tested in animals. These models contain several limitations, which should be considered when the results (e.g., risk estimates) are evaluated. Primary among these limitations is the uncertainty in extrapolation of results obtained in animal research to humans and the shortcomings in extrapolating responses obtained from high-dose research studies to estimate responses at very low doses.

For example, humans are typically exposed to environmental chemicals at levels that are less than a thousandth of the lowest dose tested in animals. Such doses may be easily degraded or eliminated by physiological internal mechanisms that are present in humans (Ames, 1987).

Additionally, approaches typically used for designating RfDs are highly conservative. For example, EPA (1989) applies a factor of 10 to a No-Observable-Adverse-Effect-Level (NOAEL) for a compound in an animal study for animal-to-human extrapolation. An additional factor of 10 is applied for inter-individual variation in the human population, and additional factors of 10 may be applied to account for limitations in data quality or incomplete studies. Frequently, RfDs are derived from animal studies that have little quantitative bearing on potential adverse effects in humans. Some of this uncertainty may be reduced if the absorption, distribution, metabolic fate, and excretion parameters of a compound are known.

Potential long-term, or chronic, exposures are typically evaluated in risk assessments for Superfund sites, and chronic RfDs and RfCs are the appropriate toxicity criteria to apply to chronic exposure scenarios (chronic exposure is defined in EPA, 1989 as greater than or equal to seven years). The BHHRA includes a construction worker scenario, which was assumed to be of a shorter duration than seven years and is, therefore, considered a subchronic exposure scenario. In some cases, EPA provides recommended subchronic RfDs which are typically 10 times higher than chronic values. Only chronic toxicity values were used in the risk assessment, which imparts conservatism in the construction worker scenario.

6.4 RISK CHARACTERIZATION UNCERTAINTIES

The only instance where uncertainty may have been introduced into the risk assessment that is not considered conservative was when toxicity values or screening criteria were not available. This was only an issue when evaluating impacts to off-site receptors since there are not inhalation toxicity values for many of the compounds (or TCEQ PCLs) and, as such, a comparison could not be made. It is believed that this is insignificant since: 1) there are few VOCs present in soil at the South Area; 2) the VOCs that are present were measured in low concentrations; and 3) surficial soil testing for lead on Lots 19 and 20 did not suggest that off-site migration via fugitive dust generation was a significant concern.

It was estimated that risks associated with VOC emissions from shallow Zone A groundwater to future inhabitants of buildings were above EPA's target risk goals. It should be noted that this is a highly uncertain pathway with the use of many default assumptions to calculate risks since currently the pathway is incomplete (i.e., there is no building or no worker at the Site 250 days per year for exposure to occur).

Likewise, conservative assumptions were made about the slab and slab integrity and contaminant transport in the J&E VIM that would greatly affect the resulting risk estimates. Therefore, it is advisable to consider the results of this analysis in light of the substantial amount of uncertainty in the underlying assumptions of this pathway.

6.5 IMPACT OF UNCERTAINTIES

As described in this section, efforts were made in the BHHRA to purposefully err on the side of conservatism in the absence of site-specific information. It is believed that the overall impact of the uncertainty and conservative nature of the evaluation results in an overly protective assessment. Therefore, for scenarios with risks and HIs within or below the Superfund risk range goal and target HI, it can be said with confidence that these environmental media and areas do not present an unacceptable risk.

7.0 CONCLUSIONS

The primary objective of this BHHRA was to evaluate the possible risks associated with PCOCs in environmental media on human receptors at the Gulfco Marine Maintenance Site. This information will be used to help guide future risk management decisions at the Site. The risk assessment methodology used to conduct this analysis was based on the approach described by EPA in various supplemental and associated guidance documents as documented throughout the report.

Data were segregated by media and by location (e.g., North Area soil and South Area soil; Intracoastal Waterway sediment and Wetlands sediment) and distribution testing was performed. Exposure point concentrations were estimated for all PCOCs for both central tendency (average) and RME (95% UCL) exposures using EPA's ProUCL program.

Five different exposure scenarios were quantitatively evaluated for the thirteen different potentially contaminated media identified at the Site. Exposure scenarios were developed to describe current and potential future land use by various human receptors and included a future industrial worker, future construction worker, current youth trespasser, current contact recreation receptor, and current off-site residential receptor. Exposure and risks were calculated for both central tendency and RME scenarios.

The risk assessment showed that there were not unacceptable cancer risk or noncancer hazard indices for any of the current or future exposure scenarios except for future exposure to an indoor industrial worker if a building is constructed over impacted groundwater in the North Area. Potential cancer risks in the North Area using maximum shallow Zone A groundwater concentrations and the J&E VIM were predicted to be greater than 1 x 10⁻⁴ while the HIs were estimated to be greater than 1. It should be noted that this scenario was evaluated despite the current restrictive covenant on Lots 55, 56, and 57 that require future building design to preclude vapor intrusion, which would effectively make this pathway incomplete. Therefore, current risks at the Site are acceptable given the low levels of potential exposure. Estimated risks from Zone A groundwater at the South Area were below EPA's goals and, therefore, adverse risks associated with the vapor intrusion pathway are unlikely in this area.

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TABLE 1 EXPOSURE POINT CONCENTRATIONS (mg/kg) SOUTH AREA SURFACE SOIL*

		Max	Min		EPA Region 6 Soil			# of Detects/#
Chemical of Interest ⁺	Average	Detection	Detection	Tot Soil Comb (1)	Screening Criteria (2)	95% UCL	Statistic Used (3)	of Samples
2-Methylnaphthalene	0.0293	0.501	0.0106	2,5E+03		0.0784	97.5% Chebyshev	22 of 83
4.4'-DDD	0.0007894	0.0243	0.00264	1.0E+02	1.1E+01	0.0029	97.5% Chebyshey	5 of 83
4.4'-DDE	0.0019	0.0693	0.000428	7.3E+01	7.8E+00	0.0074	97.5% Chebyshey	17 of 83
4,4'-DDT	0,0038	0.0625	0.000281	6.8E+01	7,8E+00	0.014	99% Chebyshev	37 of 83
Acenaphthene	0,0595	1.69	0.0113	3.7E+04	3.3E+04	0,197	97.5% Chebyshev	26 of 83
Acenaphthylene	0,0382	0,935	0.0184	3,7E+04		0.113	97.5% Chebyshev	19 of 83
Aluminum	5335	15200	414	5.70E+05	1.0E+05	5946	95% Student's-t	83 of 83
Anthracene	0.0961	2.46	0.0112	1.9E+05	1.0E+05	0.297	97.5% Chebyshey	37 of 83
Antimony	1,118	5,14	0.2	3,1E+02	4.5E+02	1.959	97.5% Chebyshev	72 of 83
Arocior-1254	0.137	7.98	0.00334		8.3E-01	0.726	97.5% Chebyshev	13 of 85
Arsenic	3.735	24.3	0.26	2.0E+02	1.8E+00	4.535	95% Approx. Gamma	71 of 83
Barium	345.2	2180	18,6	8.90E+04	7.9E+04	415.1	95% H-UCL	83 of 83
Benzo(a)anthracene	0.345	5.02	0.0286	2.4E+01	2.3E+00	1.211	99% Chebyshev	30 of 83
Benzo(a)pyrene	0.457	4.57	0.0103	2.4E+00	2.3E-01	1.457	99% Chebyshev	65 of 83
Benzo(b)fluoranthene	0.582	5.42	0.0408	2.4E+01	2.3E+00	1.638	95% H-UCL	61 of 83
Benzo(g,h,i)perylene	0.324	4.24	0.00989	1.9E+04		1.095	99% Chebyshev	51 of 83
Benzo(k)fluoranthene	0.24	4.25	0.0195	2.4E+02	2.3E+01	0.651	97.5% Chebyshev	33 of 83
Beryllium	0.408	4.6	0.014	2.5E+02	2.2E+03	0.487	95% Approx. Gamma	82 of 83
Boron	4,662	54.4	2,43	1.9E+05	1.0E+05	9,663	97.5% Chebyshev	34 of 83
Butyl Benzyl Phthalate	0.0187	0.297	0.0129	1.00E+04	2.4E+02	0.0373	95% Chebyshev	6 of 83
Cadmium	0.464	9.71	0.023	8.5E+02	5.6E+02	1.71	99% Chebyshev	50 of 83
Carbazole	0,0612	1.54	0.0104	9.5E+02	9.6E+01	0,193	97.5% Chebyshev	29 of 83
Chromium	16.08	136	3.37	5.7E+04	5.0E+02	17.45	95% H-UCL	83 of 83
Chrysene	0.409	4.87	0.00932	2.4E+03	2.3E+02	1.322	99% Chebyshev	56 of 83
Cobalt	3,705	16	0.049	2.70E+02	2.1E+03	4.781	95% Chebyshev	82 of 83
Copper	27.98	216	1.55	3.7E+04	4.2E+04	32.45	95% H-UCL	83 of 83
Dibenz(a,h)anthracene	0.155	1.64	0.0639	2.4E+00	2.3E-01	0.363	97.5% Chebyshev	36 of 83
Dibenzofuran	0.0378	0.821	0.0167	2.7E+03	1.7E+03	0.111	97.5% Chebyshev	17 of 83
Dieldrin	0.000997	0.0205	0.000243	1.1E+00	1.2E-01	0.003	97.5% Chebyshev	21 of 83
Di-n-butyl Phthalate	0.048	0.753	0.0368	1.6E+04	6.8E+04	0,0967	95% Chebyshey	9 of 83
Endosulfan Sulfate	0.002	0.0713	0.000456	4.1E+03		0.0077	97,5% Chebyshev	17 of 83
Endrin Aldehyde	0.0023	0.0738	0.000497	2.0E+02		0.0084	97.5% Chebyshev	22 of 83
Endrin Ketone	0.0016	0.02	0.000469	1.8E+02		0.004	97.5% Chebyshev	18 of 83
Fluoranthene	0.799	14.2	0.0133	2.5E+04	2.4E+04	2.656	95% H-UCL	59 of 83
Fluorene	0.0515	1.11	0.00945	2.5E+04	2.6E+04	0.155	97.5% Chebyshev	28 of 83
gamma-Chlordane	0.00082679	0.0156	0.00071	5.1E+01		0.0025	97.5% Chebyshev	8 of 83
Indeno(1,2,3-cd)pyrene	0.47	6.49	0.0634	2.4E+01	2.3E+00	1.115	97.5% Chebyshev	63 of 83
Iron	16285	77100	3450		1.0E+05	17845	95% H-UCL	83 of 83
Lead	69.61	643	2.82	1.6E+03	8.0E+02	84.5	95% H-UCL	83 of 83
Lithium	7.856	28	0.65	1.90E+03	2.3E+04	9.055	95% Approx. Gamma	83 of 83
Manganese	257.4	892	59,3	2.4E+04	3.5E+04	281.1	95% Student's-t	83 of 83
Mercury	0.0227	0.66	0.0032	3.3E+00	3.4E+02	0.0254	95% H-UCL	37 of 83
Molybdenum	1.306	8.42	0.098	4.5E+03	5.7E+03	1.645	95% Approx. Gamma	71 of 83
Nickel	11.64	36.7	2.84	7.9E+03	2,3E+04	12.54	95% Approx. Gamma	83 of 83
Phenanthrene	0.512	12.6	0.0139	1.9E+04		2.198	99% Chebyshev	57 of 83
Pyrene	0.533	8.47	0.0121	1.9E+04	3,2E+04	1.366	95% H-UCL	57 of 83
Strontium	70.61	527	16.5	4.9E+05	1.0E+05	101.2	95% Chebyshev	83 of 83
Tin	0.611	4.95	0.52	4.0E+05		0.991	95% Chebyshev	23 of 83
Titanium Vanadium	29.8 13.76	645 45.6	11.5 5.42	1.0E+06 2.3E+03	1.1E+03	63 14.84	95% Chebyshev 95% Approx. Gamma	83 of 83 83 of 83

- Notes:

 * Surface soil was collected from 0 to 0.5 ft. below ground surface.

 * Chemicals of interest are any chemical measured in at least one sample at a frequency of detection greater than five percent. Bolded compounds have a maximum concentration that exceeded the screening value.

 (1) __Tot_Soil_comb_PCL = TCEQ protective concentration Level for 30 acre source area Commercial/Industrial total soil combined pathway (includes inhalation; ingestion; dermal pathways).

 (2) _From EPA's "Region 6 Human Health Medium-Specific Screening Levels 2004-2005". Industrial Outdoor Worker.

- (3) Recommended exposure point concentration to be used based on data distribution per Pro UCL (see Appendix A). When the compound was not detected
- in a given sample, one-half of the sample detection limit was used as the proxy concentration for that sample.

TABLE 2 EXPOSURE POINT CONCENTRATIONS (mg/kg) SOUTH AREA SOIL*

Observed of later of		Max	Min	Tota (1)	EPA Region 6 Soil	05% 1101	Statistic Used (3)	# of Detects/#
Chemical of Interest*	Average	Detection	Detection	TotSoil _{Comb} (1)	Screening Criteria (2)	95% UCL		of Samples
1,3,5-Trimethylbenzene 2-Butanone	0.099 0.00412	4.36 0.0226	0.000267 0.000992	8.3E+01 7.3E+04	7.8E+01 3.4E+04	0,532 0,00925	97.5% Chebyshev 97.5% Chebyshev	9 of 83 4 of 83
2-Hexanone	0.00412	0.0220	0.000992	7.9E+01	3,42,04	0.00323	97.5% Chebyshev	8 of 83
2-Methylnaphthalene	0.0698	7.21	0.0106	2.5E+03		0.341	97,5% Chebyshev	32 of 166
4,4'-DDD	0.00766	1.12	0.000369	1.0E+02	1.1E+01	0.0498	97.5% Chebyshev	21 of 166
4,4'-DDE	0.0017	0.0693	0.000428	7.3E+01	7.8E+00	0.0054	97.5% Chebyshev	22 of 166
4,4'-DDT	0.0037	0.113	0,000281	6.8E+01	7.8E+00	0.0125	99% Chebyshev	68 of 166
Acenaphthylana	0,0419	1,69	0.0113 0.0172	3.7E+04 3.7E+04	3.3E+04	0.115	97.5% Chebyshev	35 of 166
Acenaphthylene Acetone	0.0145	1.2 0.16	0.0172	8.1E+03	1.0E+05	0.114 0.0491	97.5% Chebyshev 99% Chebyshev	37 of 166 10 of 83
Aluminum	6452	15700	414	5.70E+05	1.0E+05	6914	95% Student's-t	166 of 166
Anthracene	0.0874	2.46	0.0112	1.9E+05	1.0E+05	0.21	97.5% Chebyshey	65 of 166
Antimony	1.023	5.51	0.2	3.1E+02	4.5E+02	1.576	97.5% Chebyshev	144 of 166
Aroclor-1254	0.205	11.5	0.00334		8.3E-01	0.74	97.5% Chebyshev	25 of 170
Arsenic	3.331	24.3	0.23	2.0E+02	1.8E+00	4.916	97.5% Chebyshev	139 of 166
Barium	237.4	2180	18.6	8.90E+04	7.9E+04	330.4	95% Chebyshev	166 of 166
Benzene	0.004	0.0221	0.000339	1.11E+02	1.6E+00	0.0065	97.5% Chebyshev	72 of 83
Benzo(a)anthracene	0.268	5.02	0.0118	2.4E+01	2.3E+00	0.859	99% Chebyshev	44 of 166
Benzo(a)pyrene	0.347	4.88	0.00999	2.4E+00	2.3E-01	1.008	99% Chebyshev	113 of 166
Benzo(b)fluoranthene	0.466	5.97	0.0408	2.4E+01	2.3E+00	1.256	99% Chebyshev	102 of 166
Benzo(g,h,i)perylene	0.251	4.24	0.00989	1.9E+04		0.545	97,5% Chebyshev	81 of 166
Benzo(k)fluoranthene	0.157	4.25	0.0158	2.4E+02	2.3E+01	0.378	97.5% Chebyshev	45 of 166
Beryllium	0.465	4.6	0.014	2.5E+02	2.2E+03	0.668	97.5% Chebyshev	165 of 166
Boron Butyl Benzyl Phthalate	4.811 0.0203	54.4 0.617	2.43 0.0129	1.9E+05 1.00E+04	1.0E+05 2.4E+02	7.387 0.0392	97.5% Chebyshev 95% Chebyshev	72 of 166 10 of 166
Cadmium	0,0203	9,71	0.0129	8.5E+02	5.6E+02	0.751	97,5% Chebyshev	93 of 166
Carbazole	0.0459	1.54	0.0104	9.5E+02	9.6E+01	0,118	97.5% Chebyshev	42 of 166
Carbon Disulfide	0.0012	0.028	0.000987	7.2E+03	7.2E+02	0.004	97,5% Chebyshev	13 of 83
Chromium	13.53	136	2.03	5.7E+04	5.0E+02	17.75	95% Chebyshev	166 of 166
Chrysene	0.327	4.87	0.00901	2.4E+03	2.3E+02	0.938	99% Chebyshev	93 of 166
Cobalt	4.144	16	0.049	2.70E+02	2.1E+03	4.407	95% Student's-t	165 of 166
Copper Cyclohexane	24.26 0.266	487 21.7	0.13 0.000626	3.7E+04 4.2E+04	4.2E+04 6.8E+03	46.92 1.898	97.5% Chebyshev 97.5% Chebyshev	164 of 166 47 of 83
Dibenz(a,h)anthracene	0.113	1.64	0.0619	2.4E+00	2.3E-01	0.236	97.5% Chebyshev	56 of 166
Dibenzofuran	0.0309	0.821	0.0167	2.7E+03	1.7E+03	0.0709	97.5% Chebyshev	23 of 166
Dieldrin	0.00090075	0.0205	0.000243	1.1E+00	1.2E-01	0.0021	97.5% Chebyshev	33 of 166
Di-n-butyl Phthalate	0.0391	0.753	0,0311	1.6E+04	6.8E+04	0.0657	95% Chebyshev	11 of 166
Endosulfan Sulfate	0.0013	0.0713	0,0713	4.1E+03		0.0042	97.5% Chebyshev	21 of 166
Endrin Aldehyde	0.0019	0.0738	0.000497	2.0E+02		0.0055	97.5% Chebyshev	31 of 166
Endrin Ketone Ethylbenzene	0.0013	0.02 0.105	0.000469 0.000654	1.8E+02 1.0E+04	2.3E+02	0.0029 0.0127	97.5% Chebyshev 97.5% Chebyshev	25 of 166 47 of 83
Fluoranthene	0.594	14.2	0.000634	2.5E+04	2.3E+02 2.4E+04	1.886	99% Chebyshev	96 of 166
Fluorene	0.0442	1.11	0.00945	2.5E+04	2.6E+04	0.107	97.5% Chebyshev	41 of 166
gamma-Chlordane	0.00069043	0.0156	0.00071	5.1E+01		0.0017	97.5% Chebyshev	12 of 166
Indeno(1,2,3-cd)pyrene	0.368	6.49	0.0574	2.4E+01	2.3E+00	0.761	97.5% Chebyshev	104 of 166
Iron	14277	77100	2410		1.0E+05	17453	95% Chebyshev	166 of 166
Isopropylbenzene (cumene)	0.831	64.9	0.000318	6.3E+03	5.8E+02	8.618	99% Chebyshev	16 of 83
Lead	53.52	702	2.48	1.6E+03	8.0E+02	104	97.5% Chebyshev	166 of 166
Lithium	10.03	28.6	0.65	1.90E+03	2.3E+04	12.17	95% Chebyshev	166 of 166
m,p-Xylene	0.0347	2.56	0.000558	6.50E+03	2.1E+02	0.227	97.5% Chebyshev	53 of 83
Manganese Mercury	261.2 0.0262	892 0.85	59.3 0.0026	2.4E+04 3.3E+00	3.5E+04 3.4E+02	277.5 0.0718	95% Student's-t 97.5% Chebyshev	166 of 166 73 of 166
Methylcyclohexane	0.0262	2.73	0.0026	3.3E+00 3.3E+04	3.4E+02 1.4E+02	0.0718	97.5% Chebyshev	57 of 83
Molybdenum	0.89	10.4	0,088	4.5E+03	5.7E+03	1.61	97.5% Chebyshev	118 of 166
Naphthalene	0.323	19.2	0.00482	1.9E+02	2.1E+02	2.775	99% Chebyshev	8 of 83
Nickel	11.74	36.7	2.7	7.9E+03	2,3E+04	12.37	95% Student's-t	166 of 166
n-Propylbenzene	0.0237	1.8	0.00023	4.1E+03	2.4E+02	0.159	97,5% Chebyshev	14 of 83
o-Xylene	0.0132	0.84	0.000223	8.00E+03	2.8E+02	0.077	97.5% Chebyshev	32 of 83
Phenanthrene Pyrene	0,401 0,432	12.6 8.47	0.0136 0.0121	1.9E+04 1.9E+04	3.2E+04	1.349 1.29	99% Chebyshev 99% Chebyshev	95 of 166 98 of 166
Strontium	75.61	591	16.5	4.9E+05	1.0E+05	100,6	95% Chebyshev	166 of 166
Tin	0.616	6.48	0.52	4.0E+05		0.91	95% Chebyshev	40 of 166
Titanium	25.77	645	4.02	1.0E+06		32.21	95% Student's-t	166 of 166
	0.00574	0.0192	0.000721	2,90E+04	5,2E+02	0.0137	97.5% Chebyshev	69 of 83
Toluene			4 ===					
Toluene Vanadjum	14.4	45,6	4.73	2.3E+03	1.1E+03	15.17	95% Approx. Gamma	166 of 166
Toluene			4.73 0.000777 6.17	2.3E+03 6,50E+03 2.5E+05	1.1E+03 2.1E+02 1.0E+05	15.17 0.304 815.2	95% Approx, Gamma 97.5% Chebyshev 97.5% Chebyshev	166 of 166 53 of 83 166 of 166

Notes:

* Soil was collected from 0 to 4 ft. below ground surface.

* Chemicals of interest are any chemical measured in at least one sample at a frequency of detection greater than five percent. Bolded compounds have a

maximum concentration that exceeded the screening value.

(1) _ Tel Soll_{Contb} PCL = TCEQ Protective Concentration Level for 30 acre source area Commercial/Industrial total soil combined pathway (includes inhalation; ingestion; dermal pathways).

⁽²⁾ - From EPA's "Region 6 Human Health Medium-Specific Screening Levels 2004-2005". Industrial Outdoor Worker.

^{(3) -} Recommended exposure point concentration to be used based on data distribution per Pro UCL (see Appendix A). When the compound was not detected

in a given sample, one-half of the sample detection limit was used as the proxy concentration for that sample.

TABLE 3 EXPOSURE POINT CONCENTATIONS (mg/L) SOUTH AREA ZONE A GROUNDWATER

Chemical of Interest ⁺	Average	RME EPC (1)	Notes:	# of Detects/# of Samples
1.1.1-Trichloroethane	1.85E-04	1.40E-03	RME EPC is max detect	1 of 13
1.1-Dichloroethane	2.10E-03	1.50E-02	RME EPC is max detect	3 of 13
2-Butanone	4.30E-04	3,00E-03	RME EPC is max detect	1 of 13
2-Methylnaphthalene	7.76E-04	8.80E-03	RME EPC is max detect	1 of 13
4,4'-DDE	3.34E-06	1.00E-05	RME EPC is max detect	1 of 13
Acetophenone	3.72E-03	4.60E-02	RME EPC is max detect	1 of 13
Acrylonitrile	1.00E-03	6.50E-03	RME EPC is max detect	1 of 13
Aluminum	7.13E-01	7.52E+00	RME EPC is max detect	7 of 13
Antimony	1.02E-02	4.30E-02	RME EPC is max detect	8 of 13
Arsenic	1.61E-02	5.70E-02	RME EPC is max detect	2 of 13
Barium	9.88E-02	2.20E-01	RME EPC is max detect	13 of 13
Benzene	4.25E-04	4.20E-03	RME EPC is max detect	1 of 13
Benzo(a)pyrene	1.06E-04	6.00E-04	RME EPC is max detect	1 of 13
Benzo(b)fluoranthene	3.26E-04	2.80E-03	RME EPC is max detect	1 of 13
Benzo(g,h,i)perylene	2.11E-04	1.60E-03	RME EPC is max detect	1 of 13
Benzoic Acid	8.40E-04	1.20E-03	RME EPC is max detect	8 of 13
Bis(2-ethylhexyl)Phthalate	1.46E-03	6.00E-04	RME EPC is max detect*	2 of 13
Boron	2.67E+00	4.04E+00	RME EPC is max detect	
Carbazole	7.00E-04	8.40E-03	RME EPC is max detect	13 of 13 1 of 13
Carbon Disulfide	6.50E-05	3.00E-04	RME EPC is max detect	
Chromium	5.53E-02	1.50E-01	RME EPC is max detect	1 of 13
	1.93E-04			13 of 13
Chrysene cis-1,2-Dichloroethene		6.00E-04	RME EPC is max detect RME EPC is max detect	1 of 13
\\ 	3.27E-03	3.00E-02 8.90E-03		4 of 13 7 of 13
Cyclohexane	3.06E-03 6.09E-04	6.80E-03	RME EPC is max detect	
Dibenz(a,h)anthracene			RME EPC is max detect RME EPC is max detect	1 of 13
Di-n-octyl Phthalate	2.90E-04 2.08E-04	2.10E-03 7.00E-04	RME EPC is max detect	1 of 13
Endosulfan II		3.10E-05	RME EPC is max detect	
Endosulfan Sulfate	5.61E-06 8.57E-06	1.00E-04	RME EPC is max detect	1 of 14
Endrin Ketone	3.74E-06	2.30E-05	RME EPC is max detect	1 of 14 1 of 13
Fluorene	1.84E-04	1.00E-03	RME EPC is max detect	1 of 13
gamma-BHC (Lindane)	7.66E-06	4.20E-05	RME EPC is max detect	2 of 14
Heptachlor Epoxide	5.07E-06	2.01E-05	RME EPC is max detect	1 of 14
Indeno(1,2,3-cd)pyrene	2.92E-04		RME EPC is max detect	1 of 13
Iron	6.39E+00	2.40E-03 2.52E+01	RME EPC is max detect	13 of 13
Isopropylbenzene (Cumene)	1.78E-04	1.60E-03	RME EPC is max detect	1 of 13
Lithium	3.61E-01	6.60E-01	RME EPC is max detect	13 of 13
m,p-Cresol	1.10E-03	8.20E-03	RME EPC is max detect	1 of 13
Manganese	4.15E+00	1.28E+01	RME EPC is max detect	13 of 13
Molybdenum	2.30E-03	2.00E-03	RME EPC is max detect	1 of 13
MTBE	3.90E-03	3.20E-02	RME EPC is max detect	3 of 13
Nickel	7.40E-03	2.20E-02	RME EPC is max detect	10 of 14
o-Cresol	7.40E-03 4.47E-04	4.40E-03	RME EPC is max detect	1 of 13
Phenanthrene	2.12E-04	1.60E-03	RME EPC is max detect	1 of 13
Selenium	9.08E-03	3.80E-02	RME EPC is max detect	2 of 13
Silver	7.38E-03	9.46E+00	RME EPC is max detect	12 of 13
Strontium	9.03E+00	1.71E+01	RME EPC is max detect	13 of 13
Thallium	2.00E-03	7.30E-03	RME EPC is max detect	1 of 13
Titanium	5.30E-03	3.10E-02	RME EPC is max detect	7 of 13
Vanadium	8.56E-03	2.30E-02	RME EPC is max detect	7 of 13
Vinyl Chloride	1.85E-04	1.90E-03	RME EPC is max detect	1 of 13
Viriyi Officiae	1.002-04	1.502-03	TOVIL LI O IS MAX DELECT	10113

^{*}The maximum detected value is sometimes lower than the average since 1/2 of the reporting limit was used as a proxy value when it was not detected and because J flagged data (estimated) were used in the risk assessment.

⁺ Chemicals of interest are any chemical measured in at least one sample.

⁽¹⁾ RME EPC is the reasonable maximim exposure exposure point concentration.

TABLE 4 EXPOSURE POINT CONCENTRATIONS (mg/L) INTRACOASTAL WATERWAY SURFACE WATER (TOTAL)

Chemical of Interest [⁺]	Average	Max Detection	Min Detection	TotRW _{Comb} (1)	RME EPC (2)	Statistic Used	# of Detects/# of Samples
Acrylonitrile	9.38E-04	2.10E-03	2.10E-03	7.57E-02	2.10E-03	RME EPC is max detect	1 of 4
Aluminum	4.05E-01	5.50E-01	2.80E-01	4.03E+02	5,50E-01	RME EPC is max detect	4 of 4
Barium	2.40E-02	2.60E-02	2.20E-02	6.49E+01	2.60E-02	RME EPC is max detect	4 of 4
Boron	4.69E+00	4.81E+00	4.60E+00	7.44E+01	4.81E+00	RME EPC is max detect	4 of 4
Chromium	7.98E-02	1.20E-01	7.00E-02	1.26E+02	1.20E-01	RME EPC is max detect	4 of 4
Соррег	6.53E-03	1.10E-02	9.10E-03	3.31E+01	1,10E-02	RME EPC is max detect	2 of 4
lron	4.63E-01	5.90E-01	3.20E-01		5.90E-01	RME EPC is max detect	4 of 4
Lithium	2.53E-01	2.70E-01	2,20E-01	1.65E+01	2.70E-01	RME EPC is max detect	4 of 4
Manganese	4.03E-02	4.80E-02	3.30E-02	4.09E+01	4.80E-02	RME EPC is max detect	4 of 4
Silver	2.80E-03	3.70E-03	2.80E-03	1.57E+00	3.70E-03	RME EPC is max detect	3 of 4
Strontium	7.22E+00	7.35E+00	6.95E+00	3,38E+02	7.35E+00	RME EPC is max detect	4 of 4
Titanium	3.90E-03	5.70E-03	2.00E-03	8.67E+04	5.70E-03	RME EPC is max detect	4 of 4
Vanadium	4.25E-02	6.10E-02	3.50E-02	1.08E+00	6.10E-02	RME EPC is max detect	4 of 4

Notes:

* Chemicals of interest are any chemical measured in at least one sample.

(1) - From Tier 1 Contact Recreation Water PCLs. TCEQ, March 31, 2006.

(2) RME EPC is the reasonable maximim exposure exposure point concentration.

TABLE 5 EXPOSURE POINT CONCENTRATIONS (mg/L) INTRACOASTAL WATERWAY BACKGROUND SURFACE WATER (TOTAL)

Chemical of Interest ⁺	Average	Max Detection	Min Detection	TotRW _{Comb} (1)	RME EPC (2)	Statistic Used	# of Detects/# of Samples
4,4'-DDD	3.30E-06	7.62E-06	3.60E-06		7.62E-06	RME EPC is max detect	2 of 4
4,4'-DDT	4.93E-06	1.30E-05	1.30E-05		1.30E-05	RME EPC is max detect	1 of 4
Acetone	1.47E-03	4.52E-03	4.52E-03	7.80E+02	4.52E-03	RME EPC is max detect	1 of 4
Aldrin	9.24E-06	1.10E-05	4.40E-06		1.10E-05	RME EPC is max detect	4 of 4
Aluminum	2.44E-01	4.00E-01	2.10E-01	4.03E+02	4.00E-01	RME EPC is max detect	4 of 4
Barium	1.96E-02	2.00E-02	2.00E-02	6.49E+01	2.00E-02	RME EPC is max detect	4 of 4
Benzo(g,h,i)perylene	1.20E-04	2.02E-04	2.02E-04		2.02E-04	RME EPC is max detect	1 of 4
Benzo(k)fluoranthene	1.73E-04	3,11E-04	3.11E-04		3.11E-04	RME EPC is max detect	1 of 4
Bis(ethylhexyl) Phthalate	4.17E-03	1.97E-02	1.94E-02		1.97E-02	RME EPC is max detect	2 of 4
Boron	4.38E+00	4.50E+00	4.27E+00	7.44E+01	4.50E+00	RME EPC is max detect	4 of 4
Chromium	7.84E-02	7.90E-02	7.80E-02	1.26E+02	7.90E-02	RME EPC is max detect	4 of 4
Chromium VI	6,20E-03	1.10E-02	1.10E-02	2.43E-01	1.10E-02	RME EPC is max detect	1 of 4
Chrysene	1.61E-04	3.68E-04	3.68E-04		3.68E-04	RME EPC is max detect	1 of 4
Di-n-butyl Phthalate	6.70E-04	1.42E-03	8.28E-04	4.49E+00	1.42E-03	RME EPC is max detect	2 of 4
Di-n-octyl Phthalate	2.65E-04	6.50E-04	6.50E-04		6.50E-04	RME EPC is max detect	1 of 4
Iron	3.40E-01	4.30E-01	3.40E-01		4.30E-01	RME EPC is max detect	4 of 4
Lithium	3.00E-01	3.40E-01	2.70E-01	1.65E+01	3.40E-01	RME EPC is max detect	4 of 4
Manganese	3.60E-02	4.10E-02	3.40E-02	4.09E+01	4.10E-02	RME EPC is max detect	4 of 4
Methoxyclor	3.66E-06	1.40E-05	1.40E-05	7.19E-02	1.40E-05	RME EPC is max detect	1 of 4
Molybdenum	2.72E-03	4.20E-03	1.80E-03	3.47E+00	4.20E-03	RME EPC is max detect	2 of 4
Silver	5.43E-03	5.90E-03	4.70E-03	1.57E+00	5.90E-03	RME EPC is max detect	4 of 4
Strontium	7.76E+00	8.31E+00	7.31E+00	3.38E+02	8.31E+00	RME EPC is max detect	4 of 4
Titanium	2.98E-03	4.20E-03	2.40E-03	8.67E+04	4.20E-03	RME EPC is max detect	4 of 4
Vanadium	4.14E-02	3.70E-02	1.10E-02	1.08E+00	3.70E-02	RME EPC is max detect	4 of 4

Notes:

* Chemicals of interest are any chemical measured in at least one sample.

^{(1) -} From Tier 1 Contact Recreation Water PCLs. TCEQ, March 31, 2006.
(2) RME EPC is the reasonable maximim exposure exposure point concentration.

TABLE 6 EXPOSURE POINT CONCENTRATIONS (mg/kg) INTRACOASTAL WATERWAY SEDIMENT

Chemical of Interest [*]	Average	Max Detection	Min Detection	TotSed _{Comb} (1)	95% UCL	Statistic Used ⁽²⁾	# of Detects/# of Samples
1,2-Dichloroethane	4.10E-04	3.02E-03	3,02E-03	6.0E+02	1.10E-03	95% Chebyshev	1 of 16
1,2-Diphenylhydrazine/azobenzene	7.30E-03	3.17E-02	3.17E-02	1.3E+02	1.03E-02	95% Student's-t	1 of 16
2-Methylnaphthalene	8.30E-03	1.88E-02	1.88E-02	4.9E+02	9.60E-03	95% Student's-t	1 of 16
3,3'-Dichlorobenzidine	4.08E-02	1.51E-01	1.51E-01	3.2E+01	5.38E-02	95% Student's-t	1 of 16
4,4'-DDT	4.11E-04	3.32E-03	4.81E-04	8.7E+01	2.30E-03	99% Chebyshev	4 of 17
4,6-Dinitro-2-methylphenol	1.70E-02	6.27E-02	6.27E-02	3.1E+02	2.24E-02	95% Student's-t	1 of 16
Acenaphthylene	1.16E-02	6.31E-02	2.39E-02	7.4E+03	2.73E-02	95% Chebyshev	2 of 16
Aluminum	6.85E+03	1.25E+04	3.90E+03	1.5E+05	7.88E+03	95% Student's-t	16 of 16
Anthracene	2.01E-02	7.53E-02	2,36E-02	3.7E+04	4.24E-02	95% Chebyshev	6 of 16
Antimony	2.25E+00	8.14E+00	7.40E-01	8.3E+01	2.99E+00	95% Approx. Gamma	16 of 16
Arsenic	4.03E+00	7.62E+00	2.41E+00	1.1E+02	4.64E+00	95% Student's-t	16 of 16
Atrazine (Aatrex)	1.79E-02	8.14E-02	8.14E-02	6.4E+01	2.54E-02	95% Student's-t	1 of 16
Barium	2.15E+02	3.77E+02	1.16E+02	2.3E+04	2.43E+02	95% Approx. Gamma	16 of 16
Benzo(a)anthracene	4.54E-02	3.95E-01	6.75E-02	1.6E+01	3.01E-01	99% Chebyshev	3 of 16
Benzo(a)pyrene	6.61E-02	4.45E-01	5.25E-02	1.6E+00	3.52E-01	99% Chebyshev	6 of 16
Benzo(b)fluoranthene	1.00E-01	6.11E-01	3.24E-02	1.6E+01	4.91E-01	99% Chebyshev	9 of 16
Benzo(g,h,i)perylene	6.61E-02	4.42E-01	1.73E-02	3.7E+03	3.57E-01	99% Chebyshev	7 of 16
Benzo(k)fluoranthene	5.89E-02	3.18E-01	4.74E-02	1.6E+02	2.71E-01	99% Chebyshev	6 of 16
Beryllium	4.63E-01	8.20E-01	2.90E-01	2.7E+01	5.28E-01	95% Student's-t	16 of 16
Boron	1.20E+01	2.72E+01	1.25E+01	1.1E+05	2.72E+01	Maximum*	10 of 16
Butyl Benzyl Phthalate	2.08E-02	2.02E-01	2.02E-01	3.1E+04	7.35E-02	95% Chebyshev	1 of 16
Carbazole	1.51E-02	8.61E-02	1.95E-02	7.1E+02	3.84E-02	95% Chebyshev	3 of 16
Chloroform	9.02E-04	5.27E-03	5.04E-03	7.3E+03	5.00E-03	99% Chebyshev	2 of 16
Chromium	9.21E+00	1.44E+01	5.01E+00	3.6E+04	1.04E+01	95% Student's-t	16 of 16
Chrysene	7.74E-02	4.75E-01	1.37E-02	1.6E+03	1.53E-01	95% Approx, Gamma	10 of 16
Cobalt	4.39E+00	7.16E+00	3.05E+00	3.2E+04	4.88E+00	95% Student's-t	16 of 16
Copper	7.11E+00	1.26E+01	3.28E+00	2.1E+04	8.43E+00	95% Student's-t	16 of 16
Cyclohexane	2.30E-03	1.92E-03	1.92E-03	1.0E+06	2.90E-03	95% Approx. Gamma	1 of 16
Dibenz(a,h)anthracene	4.35E-02	2.35E-01	5.11E-02	1.6E+00	2.05E-01	99% Chebyshev	6 of 16
Dibenzofuran	1,23E-02	3.05E-02	2.68E-02	6.1E+02	1.52E-02	95% Student's-t	2 of 16
Diethyl Phthalate	1.35E-02	3.89E-02	3.89E-02	1.2E+05	1.66E-02	95% Student's-t	1 of 16
Di-n-octyl Phthalate	1.80E-02	1.92E-01	1.47E-02	3.1E+03	6.86E-02	95% Chebyshev	2 of 16
Fluoranthene	1.13E-01	8.04E-01	2.22E-02	4.9E+03	6.14E-01	99% Chebyshev	8 of 16
Fluorene	1.22E-02	4.60E-02	1.24E-02	4.9E+03	2.43E-02	95% Chebyshev	4 of 16
gamma-Chlordane	3,13E-04	8.26E-04	6.38E-04	4.1E+01	5.70E-04	95% Chebyshev	4 of 16
Hexachlorobenzene	1.00E-02	3.19E-02	3.19E-02	8.9E+00	1.26E-02	95% Student's-t	1 of 16
indeno(1,2,3-cd)pyrene	7.22E-02	4.05E-01	5,56E-02	1.6E+01	3.47E-01	99% Chebyshev	6 of 16
iron	1.34E+04	2.82E+04	6.75E+03		1.60E+04	95% Approx. Gamma	16 of 16
Lead	1.16E+01	3,23E+01	5.00E+00	5.0E+02	1.48E+01	95% Approx, Gamma	16 of 16
isopropylbenzene (cumene)	1.00E-03	7.04E-03	4.64E-03	7.3E+04	5.80E-03	99% Chebyshev	2 of 16
Lithium	1.05E+01	2.00E+01	6.40E+00	1.1E+04	1.21E+01	95% Student's-t	16 of 16
Manganese	2.83E+02	4.74E+02	1.92E+02	1.4E+04	3.22E+02	95% Student's-t	16 of 16
Mercury	2.01E-02 9.51E-04	3.60E-02 3.70E-03	1.10E-02	3.4E+01 1.0E+06	2.33E-02 1.30E-03	95% Student's-t	16 of 16 1 of 16
Methylcyclohexane Molybdenum	9.51E-04 6.67E-01	5,66E+00	3.70E-03 1.40E-01	1.8E+03	2.15E+00	95% Approx. Gamma 95% Chebyshev	16 of 16
Nickel	9.59E+00	1.67E+01	5.80E+00	1.4E+03	1.08E+01	95% Student's-t	16 of 16
n-Nitrosodiphenylamine	1.02E-02	4.34E-02	4.34E-02	9.0E+02	1.41E-02	95% Student's-t	1 of 16
Phenanthrene	7.46E-02	5.08E-01	3.11E-02	3.7E+03	3.88E-01	99% Chebyshev	8 of 16
Pyrene Pyrene	1.30E-02	8.62E-01	3.11E-02 1.76E-02	3.7E+03 3.7E+03	6.78E-01	99% Chebyshev	10 of 16
Silver	1.72E-01	5.40E-01	3.00E-01	3.5E+02	3,76E-01	Maximum*	6 of 16
Strontium	4.49E+01	8.17E+01	3.28E+01	1.5E+05	5.12E+01	95% Student's-t	16 of 16
Titanium	2.56E+01	3.66E+01	1.91E+01	1.0E+06	2.78E+01	95% Student's-t	16 of 16
Toluene	1.40E-03	5.81E-03	5.81E-03	5.9E+04	2.00E-03	95% Approx. Gamma	1 of 16
Vanadium	1.39E+01	2.12E+01	9.06E+00	3.3E+02	1.54E+01	95% Approx. Gamma 95% Student's-t	16 of 16
Zinc	4.54E+01	9,26E+01	1.80E+01	7.6E+04	5.41E+01	95% Student's-t	16 of 16
<u></u>	4.54⊑₹01	3.20ETU1	1,000-701	7.0LTU4	J. 7 1 ETU 1	95 /6 Station 8-1	10 01 10

^{*} Recommended UCL exceeds maximum observation so the maximum measured concentration was used as the EPC.

^{*} Chemicals of interest are any chemical measured in at least one sample at a frequency of detection greater than five percent. Bolded compounds have a maximum concentration that exceeded the screening value.

^{(1) -} From Tier 1 Sediment PCLs. TCEQ, March 31, 2006.

^{(2) -} Recommended exposure point concentration to be used based on data distribution per Pro UCL (see Appendix A). When the compound was not detected in a given sample, one-half of the sample detection limit was used as the proxy concentration for that sample.

TABLE 7 EXPOSURE POINT CONCENTATION (mg/kg) INTRACOASTAL WATERWAY BACKGROUND SEDIMENT

Chemical of Interest [↑]	Average	Max Detection	Min Detection	TotSed _{Comb} (1)	95% UCL	Statistic Used ⁽²⁾	# of Detects/# of Samples
1,2,4-Trimethylbenzene	9.10E-04	3.91E-03	3.91E-03	3.7E+04	2.00E-03	95% Approx. Gamma	1 of 9
1.4-Dichlorobenzene	1.40E-03	4.11E-03	4.11E-03	2.3E+03	2.80E-03	95% Approx. Gamma	1 of 9
2-Butanone	1.10E-03	2.16E-03	2,00E-03	4.4E+05	1,70E-03	95% Student's-t	2 of 9
4,4'-DDT	1.56E-04	5.70E-04	5.70E-04	8.7E+01	3.82E-04	95% Chebyshev	1 of 9
Aluminum	1.22E+04	2.18E+04	4.73E+03	1.5E+05	1.65E+04	95% Student's-t	9 of 9
Antimony	4.02E+00	7.33E+00	1.68E+00	8.3E+01	5,40E+00	95% Student's-t	9 of 9
Arsenic	5.81E+00	9.62E+00	2.36E+00	1.1E+02	7,74E+00	95% Student's-t	9 of 9
Barium	209,7,2	2.80E+02	1.11E+02	2.3E+04	2,39E+02	95% Student's-t	9 of 9
Benzo(b)fluoranthene	8.70E-03	3.69E-02	3,69E-02	1.6E+01	2.41E-02	95% Chebyshev	1 of 9
Beryllium	7.66E-01	1.32E+00	3.20E-01	2.7E+01	1.02E+00	95% Student's-t	9 of 9
Boron	2.76E+01	4.79E+01	1.33E+01	1.1E+05	3.56E+01	95% Student's-t	9 of 9
Carbon Disulfide	1,50E-03	8,41E-03	3.41E-03	7.3E+04	4.80E-03	95% Approx. Gamma	2 of 9
Chromium	1,28E+01	2.25E+01	5.81E+00	3.6E+04	1.69E+01	95% Student's-t	9 of 9
cis-1,2-Dichloroethene	3.40E-03	2.84E-02	2.84E-02	7.3E+03	3.45E-02	99% Chebyshev	1 of 9
Cobalt	6.70E+00	1.18E+01	3.32E+00	3.2E+04	8.66E+00	95% Student's-t	9 of 9
Copper	8.14E+00	1.68E+01	2.68E+00	2.1E+04	1.13E+01	95% Student's-t	9 of 9
Iron	1.65E+04	2.79E+04	7.44E+03		2.15E+04	95% Student's-t	9 of 9
Lead	9.59E+00	1.45E+01	5.34E+00	5.0E+02	1.18E+01	95% Student's-t	9 of 9
Lithium	2.14E+01	4.46E+01	7.29E+00	1.1E+04	3.03E+01	95% Student's-t	9 of 9
Manganese	3.31E+02	4.42E+02	2.12E+02	1.4E+04	3.86E+02	95% Student's-t	9 of 9
Mercury	1.76E-02	5.00E-02	6.50E-03	3.4E+01	2.73E-02	95% Approx. Gamma	9 of 9
Molybdenum	2.41E-01	3.50E-01	1.60E-01	1.8E+03	2.83E-01	95% Student's-t	9 of 9
Nickel	1.49E+01	2.73E+01	6.31E+00	1.4E+03	1.99E+01	95% Student's-t	9 of 9
Strontium	5.92E+01	8.74E+01	3.48E+01	1.5E+05	7.28E+01	95% Student's-t	9 of 9
Titanium	3.18E+01	5.45E+01	2.11E+01	1.0E+06	3.83E+01	95% Student's-t	9 of 9
Trichloroethene	2.10E-03	1.59E-02	1.59E-02	4.4E+03	4.30E-03	99% Chebyshev	1 of 9
Vanadium	2.02E+01	3.42E+01	1.02E+01	3.3E+02	2.59E+01	95% Student's-t	9 of 9
Xylene	1.70E-03	3.35E-03	3.35E-03	1.5E+05	2.60E-03	95% Student's-t	1 of 9
Zinc	3.60E+01	5.41E+01	1.93E+01	7.6E+04	4.45E+01	95% Student's-t	9 of 9

Notes:

* Chemicals of interest are any chemical measured in at least one sample at a frequency of detection greater than five percent. Bolded compounds have a maximum concentration that exceeded the screening value.

^{(1) -} From Tier 1 Sediment PCLs. TCEQ, March 31, 2006.

^{(2) -} Recommended exposure point concentration to be used based on data distribution per Pro UCL (see Appendix A). When the compound was not detected in a given sample, one-half of the sample detection limit was used as the proxy concentration for that sample.

TABLE 8 EXPOSURE POINT CONCENTRATIONS (mg/kg) NORTH AREA SURFACE SOIL*

0.0123 0.0011 0.0012 0.0161 0.0099 10673	0.053 0.0149 0.0108 0.157	0.01 0.00216	TotSoil _{Comb} (1) 2.5E+03	Criteria (2)	95% UCL		Samples
0.0011 0.0012 0.0161 0.0099	0.0149 0.0108				0.0275	Statistic Used (3)	
0.0012 0.0161 0.0099	0.0108		7.3E+01	7.8E+00	0.0275	95% Chebyshev 99% Chebyshev	3 of 18 2 of 18
0.0161 0.0099		0.000597	6.8E+01	7.8E+00	0.0093	99% Chebyshev	7 of 18
0,0099		0.021	3,7E+04	3.3E+04	0.0073	95% Chebyshev	2 of 18
	0.0555	0.0555	3.7E+04	3.3L704	0.0328	95% Chebyshev	1 of 18
100/3	16800	1810	5.7E+05	1.0E+05	12185	95% Student's-t	18 of 18
0.0257	0,264	0.00887	1.9E+05	1.0E+05	0.168	99% Chebyshev	4 of 18
1,744	8.09	1.66	3.1E+02	4.5E+02	6,777	99% Chebyshev	9 of 18
0.0037	0.0122	0.0122	3. IE+02	8.3E-01	0.0077	95% Chebyshev	1 of 18
2.522	5.69	0.54	2.0E+02	1.8E+00	2,999	95% Student's-t	17 of 18
							18 of 18
							1 of 18
0.114	1.42	0.0135	2.4E+00	2.3E-01	0.888	99% Chebyshev	7 of 18
0.146	1.62	0.0487	2.4E+01	2.3E+00	0.352	95% Adjusted Gamma	8 of 18
0.132	1.28	0.0237	1.9E+04		0.842	99% Chebyshev	10 of 18
0.0689	0.799	0.011	2.4E+02	2.3E+01	0.505	99% Chebyshev	4 of 18
0,708	2,88	0.066	2.5E+02	2.2E+03	2.125	99% Chebyshev	17 of 18
0.0462	0.239	0.0122	5.6E+02	1.4E+02	0.0978	95% Chebyshev	6 of 18
8.028	39.2	3,15	1,9E+05	1.0E+05	13.49	95% Approx. Gamma	13 of 18
0.016	0.151	0.151	1.0E+04	2.4E+02	0.0514	95% Chebyshev	1 of 18
0.207	8.0	0.28	8.5E+02	5.6E+02	0,799	99% Chebyshev	8 of 18
0.0153	0.128	0.013	9.5E+02	9.6E+01	0.045	95% Chebyshev	4 of 18
20.26	128	7.9	5.7E+04	5.0E+02	48.59	95% Student's-t	18 of 18
0.102	1.3	0.011	2.4E+03	2.3E+02	0.812	99% Chebyshev	7 of 18
5.789	7.87	2.81	2.7E+02	2.1E+03	6.406	95% Student's-t	18 of 18
24.13	200	5.9	3.7E+04	4.2E+04	70.01	95% Chebyshev	18 of 18
0.0471	0.404	0.045	2.4E+00	2.3E-01	0.284	99% Chebyshev	4 of 18
0.0129	0.0862	0.0862	2.7E+03	1.7E+03	0.0336	95% Chebyshev	1 of 18
0.0004866	0.00545	0.00545	1.1E+00	1.2E-01	0.0034	99% Chebyshev	1 of 18
0.0113	0.011	0.011	2.0E+03	1.0E+05	0,0215	95% Chebyshev	1 of 18
0.0179	0.01	0.01	1.6E+04	6.8E+04	0.0357	95% Chebyshev	1 of 18
0.0144	0,123	0.0154	1.3E+04		0.0428	95% Chebyshev	2 of 18
						95% Chebyshev	1 of 18
							1 of 18
							6 of 18
-						-	3 of 18
0.151	1.51	0.02	2.4E+01	2.3E+00	0.969	99% Chebyshev	9 of 18
19477	102000	8450		1.0E+05	41127	95% Chebyshev	18 of 18
57.7	471	8.22	1.6E+03	8.0E+02	318.3	99% Chebyshev	18 of 18
							18 of 18
		82.3					18 of 18
0.0126	0,064	0.006	3.3E+00	3.4E+02	0.0218	95% Approx. Gamma	8 of 18
0.949	10.7	0.085	4.5E+03	5.7E+03	6.812	99% Chebyshev	11 of 18
17.04	51.7	11.7	7.9E+03	2.3E+04	20.76	95% Student's-t	18 of 18
0.109	1.34	0.018	1.9E+04		0.845	99% Chebyshev	7 of 18
0.147	1.87	0.0149	1.9E+04	3.2E+04	1.169	99% Chebyshev	8 of 18
0.0543	0.41	0.092	1.7E+03	5,7E+03	0.148	95% Chebyshev	2 of 18
57.32	93.6	26.6	4.9E+05	1.0E+05	65.4	95% Student's-t	18 of 18
0.109	0.63	0.63	7.8E+01		0.273	95% Chebyshev	1 of 18
0.625	3.67	0.68	4.0E+05		1.494	95% Chebyshev	4 of 18
		3.41					18 of 18
							18 of 18
418.4	5640	29.5	2.5E+05	1.0E+05	3485	99% Chebyshev	18 of 18
	145.2 0.0715 0.114 0.146 0.132 0.0689 0.708 0.0462 8.028 0.016 0.207 0.0163 20.26 0.102 5.789 24.13 0.0471 0.0129 0.0004868 0.0113 0.0179 0.0144 0.000304 0.000874 0.159 0.165 0.165 0.165 0.170 0.179 0.179 0.179 0.179 0.189 0.189 0.189 0.189 0.181	145.2 476 0.0715 1.18 0.114 1.42 0.146 1.62 0.132 1.28 0.0689 0.799 0.708 2.88 0.0462 0.239 8.028 39.2 0.016 0.151 0.207 0.8 0.0153 0.128 20.26 128 0.102 1.3 5.789 7.87 24.13 200 0.0471 0.404 0.0129 0.0862 0.0004868 0.00545 0.0113 0.011 0.0179 0.01 0.0144 0.123 0.000340 0.00149 0.000874 0.00966 0.159 2.19 0.0163 0.141 0.151 1.51 19477 102000 57.7 471 16.57 26.6 369.5 1210 0.0128 0.064 0.949 10.7 17.04 51.7 0.019 1.34 0.019 1.34 0.019 1.37	145.2 476 46.1 0.0715 1.18 1.18 0.114 1.42 0.0135 0.146 1.62 0.0487 0.132 1.28 0.0237 0.0689 0.799 0.011 0.708 2.88 0.066 0.0462 0.239 0.0122 8.028 39.2 3.15 0.016 0.151 0.151 0.0153 0.128 0.013 20.26 128 7.9 0.102 1.3 0.011 5.789 7.87 2.81 24.13 200 5.9 0.0471 0.404 0.045 0.0129 0.0862 0.0862 0.004866 0.00545 0.00545 0.0113 0.011 0.011 0.0179 0.01 0.01 0.0144 0.123 0.0154 0.000304 0.00149 0.00149 0.000304 0.0014 0.017	145.2 476 46.1 8.9E+04 0.0715 1.18 1.18 2.4E+01 0.114 1.42 0.0135 2.4E+01 0.146 1.62 0.0487 2.4E+01 0.132 1.28 0.0237 1.9E+04 0.0689 0.799 0.011 2.4E+02 0.0462 0.239 0.0122 5.6E+02 8.028 3.92 3.15 1.9E+05 0.016 0.151 0.151 1.0E+04 0.207 0.8 0.28 8.5E+02 0.0163 0.128 0.013 9.5E+02 2.026 128 7.9 5.7E+04 0.102 1.3 0.011 2.4E+03 5.789 7.87 2.81 2.7E+02 24.13 200 5.9 3.7E+04 0.0471 0.404 0.045 2.4E+00 0.0471 0.404 0.045 2.4E+00 0.0024866 0.0545 0.0545 1.1E+00 <t< td=""><td> 145.2</td><td> 145.2</td><td> 145.2</td></t<>	145.2	145.2	145.2

^{*} Surface soil was collected from 0 to 0.5 ft. below ground surface.

* Chemicals of interest are any chemical measured in at least one sample at a frequency of detection greater than five percent. Bolded compounds have a maximum concentration that exceeded the screening value.

(1) __Tol_Soil_Comb PCL = TCEQ Protective Concentration Level for 30 acre source area Commercial/Industrial total soil combined pathway (includes inhalation; ingestion; dermal pathways).

^{(2) -} From EPA's "Region 6 Human Health Medium-Specific Screening Levels 2004-2005". Industrial Outdoor Worker.

^{(3) -} Recommended exposure point concentration to be used based on data distribution per Pro UCL (see Appendix A). When the compound was not detected in a given sample, one-half of the sample detection limit was used as the proxy concentration for that sample.

TABLE 9 EXPOSURE POINT CONCENTRATIONS (mg/kg) NORTH AREA SOIL+

		Max		T-1 (4)	EPA Region 6 Soil			# of Detects/# of
Chemical of Interest**	Average	Detection	Min Detection	Tot Soil _{Comb} (1)	Screening Criteria ⁽²⁾	95% UCL	Statistic Used ⁽³⁾	Samples
1,1-Dichloroethane	0,0286	0.518	0.00161	4.3E+03	2.3E+03	0,299	99% Chebyshev	3 of 19
1,1-Dichloroethene	0.0179	0.313	0.00178	3.5E+03	4.7E+02	0.181	99% Chebyshev	2 of 19
1,2-Dichloroethane	0.0106	0.177	0.00231	1.1E+01	8.4E-01	0.103	99% Chebyshev	4 of 19
2-Butanone	0,0029	0.208	0.0017	7.3E+04	3.4E+04	0.121	99% Chebyshev	11 of 19
2-Methylnaphthalene	0.0103	0.053	0.01	2.5E+03		0.0198	95% Chebyshev	4 of 36
4,4'-DDE	0.0007	0.0149	0.00216	7.3E+01	7.8E+00	0.0024	95% Chebyshev	2 of 36
4,4'-DDT	0.000704	0.0108	0.000597	6.8E+01	7.8E+00	0.0038	99% Chebyshev	7 of 36
Acenaphthene	0.0142	0.157	0.021	3.7E+04	3.3E+04	0.036	95% Chebyshev	4 of 36
Aluminum	11971	18300	1810	5.7E+05	1.0E+05	13092	95% Student's-t	36 of 36
Anthracene	0.0215	0.264	0.00887	1,9E+05	1.0E+05	0.107	99% Chebyshev	6 of 36
Antimony	1.416	8.09	1.66	3.1E+02	4.5E+02	4.366	99% Chebyshev	16 of 36
Aroclor-1254	0.0056	0.0938	0.0122		8.3E-01	0.0168	95% Chebyshev	2 of 36
Arsenic	2.573	5.69	0.54	2.0E+02	1.8E+00	2.959	95% Student's-t	32 of 36
Barium	142.1	362	46.1	8.9E+04	7.9E+04	211.7	95% Student's-t	36 of 36
Benzene	0.0027	0.00632	0.00138	1.1E+02	1.6E+00	0.0034	95% Student's-t	12 of 19
Benzo(a)anthracene	0.068	1.18	0.0383	2.4E+01	2.3E+00	0.464	99% Chebyshev	4 of 36
Benzo(a)pyrene	0.0922	1.42	0.0135	2.4E+00	2.3E-01	0.554	99% Chebyshev	10 of 36
Benzo(b)fluoranthene	0.12	1.62	0.0487	2.4E+01	2.3E+00	0.649	99% Chebyshev	11 of 36
Benzo(g,h,i)perylene	0.0961	1.28	0.0237	1.9E+04		0.494	99% Chebyshev	14 of 36
Benzo(k)fluoranthene	0.0601	0.799	0.068	2.4E+02	2.3E+01	0.341	99% Chebyshev	6 of 36
Beryllium	0.752	2.88	0.066	2,5E+02	2,2E+03	1.087	95% Chebyshev	35 of 36
Bis(2-ethylhexyl)phthalate	0.0428	0,239	0.0122	5.6E+02	1.4E+02	0.0753	95% Chebyshev	11 of 36
Boron	7.576	39.2	3.14	1.9E+05	1.0E+05	20.55	99% Chebyshev	26 of 36
Bromoform	0.0023	0.018	0,011	6.0E+02	2.4E+02	0.013	99% Chebyshev	2 of 19
Butyl Benzyl Phthalate	0.0125	0.151	0,054	1.0E+04	2.4E+02	0.031	95% Chebyshev	2 of 36
Cadmium	0.193	0.8	0.28	8.5E+02	5.6E+02	0,59	99% Chebyshev	15 of 36
Carbazole	0.0143	0.128	0.0108	9.5E+02	9.6E+01	0.0323	95% Chebyshev	7 of 36
Carbon Disulfide	0.0028	0.0284	0.00757	7.2E+03	7.2E+02	0.018	99% Chebyshev	3 of 19
Chromium	17.17	128	7.76	5.7E+04	5.0E+02	22.69	95% Student's-t	36 of 36
Chrysene	0.0885	1.3	0.0104	2.4E+03	2.3E+02	0.529	99% Chebyshev	11 of 36
cis-1,2-Dichloroethene	0.0541	0.999	0.0195	4.7E+03	1.6E+02	0.577	99% Chebyshev	2 of 19
Cobalt	6.318	10.3	2.81	2.7E+02	2.1E+03	6.808	95% Student's-t	36 of 36
Copper	18.7	200	4,59	3.7E+04	4.2E+04	41.87	95% Student's-t	36 of 36
Cyclohexane	0.0056	0,00185	0.000981	4.2E+04	6,8E+03	0.00185	Maximum*	5 of 19
Dibenz(a,h)anthracene	0.0384	0.404	0.045	2.4E+00	2.3E-01	0.177	99% Chebyshev	7 of 36
Dibenzofuran	0.0099	0.0862	0.015	2.7E+03	1.7E+04	0.0205	95% Chebyshev	2 of 36
Diethyl Phthalate	0.0097	0.011	0.00992	2.0E+03	1.0E+05	0.0118	95% Student's-t	2 of 36
Di-n-butyl Phthalate	0.0155	0.015	0.01	1.6E+04	6.8E+04	0.0248	95% Chebyshev	2 of 36
Di-n-octyl Phthalate	0.0115	0.123	0.0154	1.3E+04	2.7E+04	0.0264	95% Chebyshev	3 of 36
Ethylbenzene	0.0016	0.00502	0.00114	1.0E+04	2.3E+02	0.00502	Maximum*	5 of 19
Fluoranthene Fluorene	0.146 0.0112	2.19 0.141	0.0214 0.017	2.5E+04 2.5E+04	2.4E+04 2.6E+04	0.923 0.0282	99% Chebyshev 95% Chebyshev	9 of 36 4 of 36
	0.1133	1.51	0.017	2.4E+01	2.3E+00	0.577		13 of 36
Indeno(1,2,3-cd)pyrene							99% Chebyshev	
Iron	17531	102000	7120		1.0E+05	21765	95% Student's-t	36 of 36
Methylcyclohexane	0.0024	0.00278	0.0015	3.3E+04	1.4E+02	0.00278	Maximum*	6 of 19
Molybdenum	0.586	10.7	0.085	4.5E+03	5.7E+03	3.551	99% Chebyshev	21 of 36
Naphthalene	0.0236	0.148 51.7	0.0013 9.74	1.9E+02 7.9E+03	2.1E+02 2.3E+04	0.102 18,79	99% Chebyshev	6 of 19
Nickel Silver	17.17 0.0473	0.41	0.092	1.7E+03	5,7E+03	0,103	95% Student's-t 95% Student's-t	36 of 36 3 of 36
Strontium	56.15	96.2	22.1	4.9E+05	1.0E+05	62.05	95% Student's-t	36 of 36
Tetrachloroethene	0.0127	0.223	0.00135	3.3E+02	1.7E+00	0.129	99% Chebyshev	3 of 19
Tin	0.0127	3.67	0.00135	4.0E+05	1.7 = 700	0.125	95% Chebyshev	5 of 36
Titanium	20.83	57	3.41	4.0E+05 1.0E+06		24.83	95% Chebysnev 95% Student's-t	36 of 36
Toluene	0.0046	0.0122	0.00134	2.9E+04	5.2E+02	0.0122	Maximum*	8 of 19
Vanadium	20.54	45,8	7.85	2.3E+03	1.1E+03	22.9	95% Student's-t	36 of 36
Xviene (total)	0,119	1.76	0.00139	6.5E+03	2,1E+02	0.372	95% Adjusted Gamma	8 of 19
Zinc	242.5	5640	21.1	2.5E+05	1,0E+05	1784	99% Chebyshey	36 of 36
			t		1			1

- Notes:
 * Recommended UCL exceeds maximum observation, so the maximum measured concentration was used as the EPC.

⁺ Soil was collected from 0 to 4 ft. below ground surface.

** Chemicals of interest are any chemical measured in at least one sample at a frequency of detection greater than five percent. Bolded compounds have a

maximum concentration that exceeded the screening value.

(1) - Tot Soil_{Comb} PCL = TCEQ Protective Concentration Level for 30 acre source area Commercial/Industrial total soil combined pathway (includes inhalation; ingestion; dermal pathways).

^{(2) -} From EPA's "Region 6 Human Health Medium-Specific Screening Levels 2004-2005". Industrial Outdoor Worker.
(3) - Recommended exposure point concentration to be used based on data distribution per Pro UCL (see Appendix A). When the compound was not detected

in a given sample, one-half of the sample detection limit was used as the proxy concentration for that sample.

TABLE 10 EXPOSURE POINT CONCENTATIONS (mg/L) NORTH AREA ZONE A GROUNDWATER

1,1-1 ritchloroethane	Chemical of Interest ⁺	Average	RME EPC ⁽¹⁾	Notes:	# of Detects/#
1.1-Dichloroetheme					
1.1-Dichroretheme					
1,2,3-Trichloropropane					
1,2,4-Timeltybenzene					
1,2-Dichloropane					
1,2-Dichioropropane					
2.Methynaphthalene					
4.4-DDD					
4.4-DDE					
4-Chitoroeniline					
Authorspyritoluene	<u> </u>				
Acelone					
Acetone					
Acetophenone					1 of 12
alpha-BHC					1 of 12
Aluminum	Acetophenone	6.80E-03		RME EPC is max detect	1 of 12
Anilline	alpha-BHC	1.96E-05	2.00E-04	RME EPC is max detect	1 of 12
Anthracene	Aluminum	8.18E-02	2.60E-01	RME EPC is max detect	5 of 12
Anthracene	Aniline	1.30E-03	1.10E-02	RME EPC is max detect	1 of 12
Antimony					
Arsenic					
Barlum					
Benzzene					
Benzo(gh,l)perylene					
Benzoigh.jperylene 2.89E-04 1.50E-03 RME EPC is max detect 5 of 12					
Benzole Acid					
beta-BHC					
Bis(2-ethylhexyl)Phthalate					
Boron					
Carbazole					
Carbon Tetrachloride 5.80E-01 7.58E+00 RME EPC is max detect 1 of 16 Chromium 9.10E-02 1.60E-01 RME EPC is max detect 12 of 12 cis-1,2-Dichioroethene 8,98E+00 1.24E+02 RME EPC is max detect 6 of 16 Coball 2.60E-03 1,60E-02 RME EPC is max detect 3 of 12 Gelta-BHC 5.97E-06 4.10E-05 RME EPC is max detect 1 of 12 Dibenz(a,h)anthracene 4.87E-04 2.90E-03 RME EPC is max detect 1 of 12 Dibenz(a,h)anthracene 4.87E-04 2.90E-03 RME EPC is max detect 1 of 12 Dibenz(a,h)anthracene 4.87E-04 4.90E-03 RME EPC is max detect 1 of 12 Dibenz(a,h)anthracene 6.01E-04 4.90E-03 RME EPC is max detect 1 of 12 Dibenz(a,h)anthracene 6.01E-04 4.90E-05 RME EPC is max detect 1 of 12 Endosulfan Sulfate 2.48E-06 1.56E-05 RME EPC is max detect 1 of 12 Endrin Aldehyde 1.31E-05 1.30E-01 RME EPC is max detect 1 of 12					
Chromium					
Cis-1,2-Dichloroethene					
Cobalt 2.60E-03 1.60E-02 RME EPC is max detect 3 of 12 dolta-BHC Dibenz(a,h)anthracene 4.87E-04 2.90E-03 RME EPC is max detect 2 of 12 Dibenz(a,h)anthracene Dibenz(a,h)anthracene 4.87E-04 2.90E-03 RME EPC is max detect 1 of 12 Dibenzofuran Dibeldrin 5.01E-06 2.84E-05 RME EPC is max detect 1 of 12 Dibenzofuran Endosulfan II 1.29E-05 1.20E-04 RME EPC is max detect 1 of 16 Endosulfan Sulfate Endosulfan Sulfate 2.46E-06 1.56E-05 RME EPC is max detect 1 of 12 Endrin Aldehyde Endrin Aldehyde 1.31E-05 1.30E-04 RME EPC is max detect 1 of 12 Endrin Aldehyde Elhylbenzene 9.69E-02 7.40E-01 RME EPC is max detect 1 of 12 Elhylbenzene Fluorene 8.51E-04 6.10E-03 RME EPC is max detect 3 of 12 gamma-BHC (Lindane) Heptachior Epoxide 5.44E-06 2.50E-03 RME EPC is max detect 3 of 12 indenc(1,2,3-cd)pyrene Iron 1.31E+01 3.66E+01 RME EPC is max detect 1 of 12 indenc(1,2,3-cd)pyrene Iron <td></td> <td></td> <td></td> <td></td> <td></td>					
delta-BHC					
Dibenz(a,h)anthracene					
Dibenzofuran					
Dieldrin 5.01E-06 2.64E-05 RME EPC is max detect 1 of 16 Endosulfan II 1.29E-05 1.20E-04 RME EPC is max detect 6 of 17 Endosulfan Sulfate 2.46E-06 1.56E-05 RME EPC is max detect 6 of 17 Endosulfan Sulfate 2.46E-06 1.56E-05 RME EPC is max detect 1 of 12 Endrin Aldehyde 1.31E-05 1.30E-04 RME EPC is max detect 1 of 12 Ethylbenzene 9.69E-02 7.40E-01 RME EPC is max detect 1 of 13 Fluorene 8.51E-04 6.10E-03 RME EPC is max detect 3 of 12 gamma-BHC (Lindane) 1.25E-04 1.50E-03 RME EPC is max detect 3 of 16 Heptachlor Epoxide 5.44E-06 2.50E-05 RME EPC is max detect 1 of 12 Iron 1.31E+01 3.66E+01 RME EPC is max detect 1 of 12 Iron 1.31E+01 3.66E+01 RME EPC is max detect 1 of 12 Iron 1.31E+01 3.66E+01 RME EPC is max detect 1 of 12 Iron 1.31E+01 3.66E+01 RME EPC is max detect 12 of 12 Iron 1.31E+01 3.66E+01 RME EPC is max detect 12 of 12 Iron 1.31E+01 3.66E+01 RME EPC is max detect 12 of 12 Iron 1.31E+01 3.66E+01 RME EPC is max detect 12 of 12 Iron 1.31E+01 3.66E+01 RME EPC is max detect 12 of 12 Iron 1.31E+01 3.66E+01 RME EPC is max detect 12 of 12 Iron 1.31E+01 3.66E+01 RME EPC is max detect 12 of 12 Iron 1.31E+01 3.26E-02 RME EPC is max detect 12 of 12 Iron 1.31E+01 3.26E-02 RME EPC is max detect 12 of 12 Iron 1.31E+01 3.26E-02 RME EPC is max detect 12 of 12 Iron 1.31E+01 3.26E-02 RME EPC is max detect 10 of 12 Iron 1.31E+01 3.26E-02 RME EPC is max detect 10 of 12 Iron 1.31E+01 3.26E-02 RME EPC is max detect 10 of 12 Iron 1.31E+01 3.26E-02 RME EPC is max detect 10 of 12 Iron 1.31E+01 3.26E-02 RME EPC is max detect 10 of 12 Iron 1.31E+01 3.26E-02 3.10E-02 RME EPC is max detect 10 of 12 Iron 1.31E+01 3.26E-02 3.10E-02 RME EPC is max detect 10 of 12 Iron 1.31E+01 3.10E-02 RME EPC is max detect 10 of 12 Iron 1.31E+01 3.3					
Endosulfan II					
Endosulfan Sulfate 2.46E-06 1.56E-05 RME EPC is max detect 1 of 12 Endrin Aldehyde 1.31E-05 1.30E-04 RME EPC is max detect 1 of 12 Ethylbenzene 9.69E-02 7.40E-01 RME EPC is max detect 1 of 13 Fluorene 8.51E-04 6.0E-03 RME EPC is max detect 3 of 12 gamma-BHC (Lindane) 1.25E-04 1.50E-03 RME EPC is max detect 3 of 16 Heptachlor Epoxide 5.44E-06 2.50E-05 RME EPC is max detect 1 of 12 Indeno(1,2,3-cd)pyrene 4.73E-04 3.30E-03 RME EPC is max detect 1 of 12 Iron 1.31E+01 3.66E+01 RME EPC is max detect 12 of 12 Isopropylbenzene (Cumene) 2.80E-02 3.80E-02 RME EPC is max detect 12 of 12 Lithlum 3.19E-01 6.70E-01 RME EPC is max detect 1 of 12 Map-Cresol 2.78E-03 1.20E-02 RME EPC is max detect 1 of 12 Map-Gresol 9.57E+01 1.23E+03 RME EPC is max detect 1 of 12 Methylene Chloride					
Endrin Aldehyde					6 of 17
Ethylbenzene 9.69E-02 7.40E-01 RME EPC is max detect 1 of 13 Fluorene 9.51E-04 6.10E-03 RME EPC is max detect 3 of 12 gamma-BHC (Lindane) 1.25E-04 1.50E-03 RME EPC is max detect 3 of 16 Heptachlor Epoxide 5.44E-06 2.50E-05 RME EPC is max detect 1 of 12 Indeno(1,2,3-cd)pyrene 4.73E-04 3.30E-03 RME EPC is max detect 1 of 12 Iron 1.31E+01 3.66E+01 RME EPC is max detect 12 of 12 Isopropylbenzene (Cumene) 2.80E-02 3.80E-02 RME EPC is max detect 2 of 12 Lithium 3.19E-01 6.70E-01 RME EPC is max detect 1 of 12 Lithium 3.19E-01 6.70E-01 RME EPC is max detect 1 of 12 Milliam 3.19E-01 6.70E-01 RME EPC is max detect 1 of 12 Milliam 3.19E-01 1.68E-01 RME EPC is max detect 1 of 12 Marjor 1.68E-03 1.20E-02 RME EPC is max detect 1 of 12 Marjor 1.74E+00					
Fluorene		1.31E-05	1.30E-04	RME EPC is max detect	1 of 12
gamma-BHC (Lindane) 1.25E-04 1.50E-03 RME EPC is max detect 3 of 16 Heptachlor Epoxide 5.44E-06 2.50E-05 RME EPC is max detect 1 of 12 Indeno(1,2,3-cd)pyrene 4.73E-04 3.30E-03 RME EPC is max detect 1 of 12 Iron 1.31E+01 3.66E+01 RME EPC is max detect 12 of 12 Isopropylbenzene (Cumene) 2.80E-02 3.80E-02 RME EPC is max detect 12 of 12 Lithium 3.19E-01 6.70E-01 RME EPC is max detect 12 of 12 Lithium 3.19E-03 1.20E-02 RME EPC is max detect 12 of 12 MpCresol 2.78E-03 1.20E-02 RME EPC is max detect 1 of 12 Manganese 7.74E+00 2.69E+01 RME EPC is max detect 1 of 12 Methylene Chloride 9.57E+01 1.23E+03 RME EPC is max detect 4 of 16 Molybdenum 7.20E-03 5.50E-02 RME EPC is max detect 1 of 12 Naphthalene 7.83E-02 3.22E-01 RME EPC is max detect 1 of 13 Nickel <td< td=""><td></td><td></td><td></td><td></td><td>1 of 13</td></td<>					1 of 13
Heptachlor Epoxide	Fluorene	8.51E-04	6.10E-03	RME EPC is max detect	3 of 12
Indeno(1,2,3-cd)pyrene	gamma-BHC (Lindane)	1.25E-04	1.50E-03	RME EPC is max detect	3 of 16
Iron	Heptachlor Epoxide	5.44E-06	2.50E-05	RME EPC is max detect	1 of 12
Sopropy Benzene (Cumene) 2.80E-02 3.80E-02 RME EPC is max detect* 2 of 12	Indeno(1,2,3-cd)pyrene	4.73E-04	3.30E-03	RME EPC is max detect	1 of 12
Lithium 3.19E-01 6.70E-01 RME EPC is max detect 12 of 12 m,p-Cresol 2.78E-03 1.20E-02 RME EPC is max detect 3 of 12 m,p-Xylene 6.85E-02 1.68E-01 RME EPC is max detect 1 of 12 Manganese 7.74E+00 2.69E+01 RME EPC is max detect 12 of 12 Methylene Chloride 9.57E+01 1.23E+03 RME EPC is max detect 4 of 16 Molybdenum 7.20E-03 5.50E-02 RME EPC is max detect 1 of 12 Naphthalene 7.83E-02 3.22E-01 RME EPC is max detect 1 of 12 Nickel 1.99E-02 1.40E-01 RME EPC is max detect 7 of 14 n-Propylbenzene 3.60E-02 3.10E-02 RME EPC is max detect 1 of 12 o-Cresol 1.40E-03 8.10E-03 RME EPC is max detect 1 of 12 o-Xylene 4.62E-02 4.40E-02 RME EPC is max detect 2 of 12 Phenanthrene 8.31E-04 6.40E-03 RME EPC is max detect 1 of 12 Silver 9.14E-03 1.70E-02 <td>Iron</td> <td>1.31E+01</td> <td>3.66E+01</td> <td>RME EPC is max detect</td> <td>12 of 12</td>	Iron	1.31E+01	3.66E+01	RME EPC is max detect	12 of 12
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	Aylette (total)	1.10E-U1	Z.12E-01	RIVIE EPU IS MAX detect	1 OT 12

Notes:

*The maximum detected value is sometimes lower than the average since 1/2 of the reporting limit was used as a proxy value when it was not detected and because J flag data were used in the risk assessment.

* Chemicals of interest are any chemical measured in at least one sample.

(1) RME EPC is the reasonable maximim exposure exposure point concentration.

TABLE 11 EXPOSURE POINT CONCENTATIONS (mg/L) WETLAND SURFACE WATER (TOTAL)

Chemical of Interest ⁺	Average	Max Detection	Min Detection	TotRW _{Comb} (1)	RME EPC (2)	Statistic Used	# of Detects/# of Samples
1,2-Dichloroethane	2,30E-03	3.85E-03	2,55E-03	1.96E-01	3.85E-03	RME EPC is max detect	3 of 4
Acrolein	1.21E-02	9.29E-03	9.29E-03	4.26E-01	9.30E-03	RME EPC is max detect*	1 of 4
Aluminum	5.08E-01	8.00E-01	1.70E-01	4.03E+02	8,00E-01	RME EPC is max detect	4 of 4
Barium	2.20E-01	3.70E-01	1.50E-01	6.49E+01	3.70E-01	RME EPC is max detect	4 of 4
Boron	1.96E+00	2.42E+00	8.30E-01	7.44E+01	2.42E+00	RME EPC is max detect	4 of 4
Chromium	1.49E-02	3.70E-02	2.00E-02	1.26E+02	3,70E-02	RME EPC is max detect	2 of 4
Chromium VI	3.13E-03	8.00E-03	8,00E-03	2.43E-01	8,00E-03	RME EPC is max detect	1 of 4
Copper	6.38E-03	1.10E-02	9.50E-03	3.31E+01	1.10E-02	RME EPC is max detect	2 of 4
Iron	6.45E-01	1.08E+00	1.90E-01		1.08E+00	RME EPC is max detect	4 of 4
Lithium	1.89E-01	2.50E-01	5.70E-02	1.65E+01	2.50E-01	RME EPC is max detect	4 of 4
Manganese	1.37E-01	3.40E-01	1.80E-02	4.09E+01	3.40E-01	RME EPC is max detect	4 of 4
Mercury	3.75E-05	7.00E-05	4.00E-05	0.0973	7.00E-05	RME EPC is max detect	2 of 4
Molybdenum	9.30E-03	1.50E-02	5.60E-03	3.47E+00	1.50E-02	RME EPC is max detect	3 of 4
Nickel	1.10E-03	2.20E-03	1.20E-03	1.13E+00	2.20E-03	RME EPC is max detect	2 of 4
Strontium	5.27E+00	6.64E+00	1.87E+00	3.38E+02	6.64E+00	RME EPC is max detect	4 of 4
Titanium	6.40E-03	9.80E-03	2,40E-03	8.67E+04	9.80E-03	RME EPC is max detect	4 of 4
Zinc	7.30E-03	2.20E-02	2.20E-02	2.01E+02	2,20E-02	RME EPC is max detect	1 of 4

Notes:

*The maximum detected value is sometimes lower than the average since 1/2 of the reporting limit was used as a proxy value when it was not detected, and because J flag data were used in the risk assessment.

* Chemicals of interest are any chemical measured in at least one sample.

^{(1) -} From Tier 1 Contact Recreation Water PCLs. TCEQ, March 31, 2006.
(2) RME EPC is the reasonable maximim exposure exposure point concentration.

TABLE 12 EXPOSURE POINT CONCENTATIONS (mg/L) POND SURFACE WATER (TOTAL)

Chemical of Interest [⁺]	Average	Max Detection	Min Detection	TotRW _{Comb} (1)	RME EPC (2)	Statistic Used	# of Detects/# of Samples
4-Chloroaniline	2.79E-04	8,23E-04	8,23E-04	2.14E+00	8.00E-04	RME EPC is max detect	1 of 6
Aluminum	9.13E-01	2.22E+00	4.10E-01	4.03E+02	2.22E+00	RME EPC is max detect	5 of 6
Antimony	3.82E-03	7.60E-03	3.00E-03	1.99E-01	7.60E-03	RME EPC is max detect	3 of 6
Arsenic	5.40E-03	1.30E-02	1.20E-02	2.85E-02	1.30E-02	RME EPC is max detect	2 of 6
Barium	1.45E-01	1.90E-01	1.30E-01	6.49E+01	1.90E-01	RME EPC is max detect	6 of 6
Benzo(a)pyrene	1.12E-04	3.48E-04	3,48E-04		3,00E-04	RME EPC is max detect	1 of 6
Benzo(b)fluoranthene	4.03E-04	1.81E-03	1.81E-03		1.80E-03	RME EPC is max detect	1 of 6
Benzo(g,h,i)perylene	3.71E-04	1.73E-03	1.73E-03		1,70E-03	RME EPC is max detect	1 of 6
Benzo(k)fluoranthene	2.06E-04	5.42E-04	5.42E-04		5.00E-04	RME EPC is max detect	1 of 6
Bis(2-ethylhexyl)phthalate	1,92E-02	4.00E-02	2,90E-02		4.00E-02	RME EPC is max detect	3 of 6
Boron	2.97E+00	3.52E+00	2.45E+00	7.44E+01	3.52E+00	RME EPC is max detect	6 of 6
Chromium	8,50E-04	1.50E-03	1.50E-03	1.26E+02	1,50E-03	RME EPC is max detect	1 of 6
Chromium VI	8.50E-03	1.60E-02	1.50E-02	2.43E-01	1.60E-02	RME EPC is max detect	2 of 6
Chrysene	2.48E-04	7.10E-04	7.10E-04		7.00E-04	RME EPC is max detect	1 of 6
Cobalt	9.12E-04	3.20E-03	5.20E-04	5.33E+01	3,20E-03	RME EPC is max detect	2 of 6
Dibenz(a,h)anthracene	6.26E-04	3.04E-03	3.04E-03		3.00E-03	RME EPC is max detect	1 of 6
Di-n-butyi Phthalate	3,12E-03	3.81E-03	1.07E-03	4.49E+00	3.80E-03	RME EPC is max detect	5 of 6
Indeno(1,2,3-cd)pyrene	6.73E-04	3.44E-03	3.44E-03		3.40E-03	RME EPC is max detect	1 of 6
Iron	2.27E+00	6.67E+00	5,20E-01		6.67E+00	RME EPC is max detect	6 of 6
Lead	2.63E-03	1.10E-02	1.10E-02		1.10E-02	RME EPC is max detect	1 of 6
Lithium	1.16E-01	1.60E-01	6.70E-02	1.65E+01	1.60E-01	RME EPC is max detect	6 of 6
Manganese	6.37E-01	1.44E+00	8.50E-02	4.09E+01	1.44E+00	RME EPC is max detect	6 of 6
Molybdenum	8.73E-03	1.80E-02	1.30E-02	3.47E+00	1.80E-02	RME EPC is max detect	3 of 6
Nickel	4.60E-03	7.90E-03	3.00E-03	1.13E+01	7.90E-03	RME EPC is max detect	6 of 6
Selenium	4.26E-03	9.80E-03	9.80E-03	4.13E+00	9.80E-03	RME EPC is max detect	1 of 6
Silver	9,30E-03	1.50E-02	3.70E-03	1.57E+00	1.50E-02	RME EPC is max detect	6 of 6
Strontium	4,47E+00	7.19E+00	1.77E+00	3.38E+02	7.19E+00	RME EPC is max detect	6 of 6
Thallium	2.86E-03	7.70E-03	6.20E-03	6.61E-02	7.70E-03	RME EPC is max detect	2 of 6
Titanium	1.90E-02	4,40E-02	2.10E-03	8.67E+04	4.40E-02	RME EPC is max detect	6 of 6
Vanadium	3.20E-03	8.40E-03	4.30E-03	1.08E+00	8.40E-03	RME EPC is max detect	3 of 6
Zinc	1.20E-01	6.30E-01	2.70E-02	2.01E+02	6,30E-01	RME EPC is max detect	3 of 6
		l			<u> </u>		

Notes:

* Chemicals of interest are any chemical measured in at least one sample at a frequency of detection greater than five percent. Bolded compounds have a maximum concentration that exceeded the screening value.

(1) From Tier 1 Contact Recreation Water PCLs. TCEQ, March 31, 2006.

⁽²⁾ RME EPC is the reasonable maximim exposure exposure point concentration.

TABLE 13 EXPOSURE POINT CONCENTATIONS (mg/kg) WETLAND SEDIMENT

12-Dichloroethane			Max		Tet (4)		(2)	# of Detects/#
2.Methynaphthalene	Chemical of Interest ⁺	Average	Detection	Min Detection	TotSed _{Comb} (1)	95% UCL	Statistic Used ⁽²⁾	of Samples
44-IDIT								3 of 48
Acenaphthene								4 of 48
Acenaphthylene								16 of 55
Aluminum								4 of 48
Anthracene	,							4 of 48
Antimony Antimony	Aluminum	1.32E+04	1.82E+04	3.40E+03	1.5E+05	1.40E+04	95% Student's-t	48 of 48
Arsenic 2,53E+00 1,28E+01 1,00E+00 1,1E+02 3,40E+00 95% Approx. Gamma 35 o		2.88E-02	3.34E-01	8.38E-03	3.7E+04	1.26E-01	99% Chebyshev	8 of 48
Barium	Antimony ⁽³⁾	1.15E+00	4.24E+00	4.60E-01	8.3E+01	1.61E+00	95% Chebyshev	40 of 48
Barium	Arsenic	2.53E+00	1.28E+01	1.00E+00	1.1E+02	3.40E+00	95% Approx. Gamma	35 of 48
Benzo(a)pyrene	Barium	1,52E+02	8.20E+02	3.60E+01	2.3E+04	2.38E+02		48 of 48
Benzo(b) Fluoranthene	Benzo(a)anthracene	5.43E-02	9.93E-01	5.46E-02	1.6E+01	3.06E-01	99% Chebyshev	5 of 48
Benzo(gh/fuoranthene 9.02E-02 1.36E+01 1.9E-01 4.31E-01 99% Chebyshev 19.0	Benzo(a)pyrene	1.04E-01	1.30E+00	1.76E-02	1.6E+00	4.76E-01	99% Chebyshev	15 of 48
Senzo(g,h,l)perylene	712							19 of 48
Senzo(k) fluoranthene								24 of 48
Beryllium								14 of 48
Boron State Stat								48 of 48
Cadmium								24 of 48
Carbazole 1.92E-02 1.41E-01 1.58E-02 7.1E+02 6.45E-02 99% Chebyshev 5 of Carbon Disulfide Carbon Disulfide 5.25E-04 6.99E-03 3.34E-03 7.3E+04 2.60E-03 99% Chebyshev 4 of Chromium 1.51E+01 4.46E+01 8.96E+00 3.6E+04 1.64E+01 95% Student's-1 48 of Chromium VI Chromium VI 9.6E-01 4.0E+00 1.30E+00 1.4E+02 3.38E+00 99% Chebyshev 6 of Chrysene Chrysene 2.17E-01 4.05E+00 1.00E-02 1.6E+03 1.24E+00 99% Chebyshev 19 of Chebyshev Copper 1.45E+01 4.90E+01 5.4EE+00 2.1E+04 7.3E+00 95% Student's-1 48 of Chebyshev Dibenz(a,h)anthracene 2.03E-01 2.91E+00 1.29E-01 1.6E+00 1.10E+00 99% Chebyshev 6 of Chebyshev 3 of Endosulfan Sulfate 1.80E-03 8.00E-02 7.31E-03 9.2E+02 1.44E-02 99% Chebyshev 3 of Endrin Aldehyde 1.00E-03								20 of 48
Carbon Disulfide								5 of 48
Chromium								4 of 48
Chromium VI								48 of 48
Chrysene								6 of 25
Cobalt 6,98E+00 9,89E+00 3,00E+00 3,2E+04 7,32E+00 95% Student's-t 48 or Copper 1,45E+01 4,90E+01 5,44E+00 2,1E+04 1,66E+01 95% Student's-t 48 or Dibenz(a,h)anthracene 2,03E-01 2,91E+00 1,29E-01 1,66E+00 1,10E+00 99% Chebyshev 6 of Dibenzofuran 1,39E-02 8,00E-02 1,00E-02 6,1E+02 2,50E-02 95% Chebyshev 3 of Endosulfan Sulfate 1,80E-03 6,00E-02 7,31E-03 9,2E+02 1,44E-02 99% Chebyshev 3 of Endrin Ketone 7,85E-04 1,30E-02 3,29E-03 4,6E+01 4,30E-03 99% Chebyshev 3 of Fluoranthene 1,08E-01 2,17E+00 1,20E-02 4,9E+03 6,37E-01 99% Chebyshev 4 of Fluoranthene 1,66E-02 1,39E-01 1,50E-02 4,9E+03 6,37E-02 99% Chebyshev 4 of Fluoranthene 1,66E-04 3,60E-02 1,50E-02 4,9E+03 6,37E-02 99% C								19 of 48
Copper								48 of 48
Dibenz(a,h)anthracene								48 of 48
Dibenzofuran 1.39E-02								6 of 48
Endosulfan Sulfate								3 of 48
Endrin Aldehyde 1.00E-03 1.00E-02 5.66E-04 4.6E+01 4.30E-03 99% Chebyshev 9 of Endrin Ketone 7.85E-04 1.30E-02 3.29E-03 4.6E+01 2.00E-03 95% Chebyshev 3 of Fluoranthene 1.08E-01 2.17E+00 1.20E-02 4.9E+03 6.37E-01 99% Chebyshev 13 of Fluorene 1.86E-02 1.39E-01 1.50E-02 4.9E+03 6.37E-01 99% Chebyshev 4 of gamma-Chlordane 4.05E-04 3.60E-03 7.69E-04 4.1E+01 8.27E-04 95% Chebyshev 4 of Indeno(1,2,3-cd)pyrene 2.01E-01 1.94E+00 6.28E-02 1.6E+01 7.85E-01 99% Chebyshev 23 o Iron 1.72E+04 6.09E+04 1.11E+04 1.88E+04 95% Student's-t 48 o Lead 2.54E+01 2.37E+02 9.40E+00 5.0E+02 4.68E+01 95% Chebyshev 48 o Lithium 1.87E+01 2.76E+01 5.43E+00 1.1E+04 1.96E+01 95% Approx. Gamma								3 of 48
Endrin Ketone 7.85E-04 1.30E-02 3.29E-03 4.6E+01 2.00E-03 95% Chebyshev 3 of Fluoranthene 1.08E-01 2.17E+00 1.20E-02 4.9E+03 6.37E-01 99% Chebyshev 13 or Fluorene 1.86E-02 1.39E-01 1.50E-02 4.9E+03 6.37E-02 99% Chebyshev 4 of gamma-Chlordane 4.05E-04 3.60E-03 7.69E-04 4.1E+01 8.27E-04 95% Chebyshev 4 of Indeno(1,2,3-cd)pyrene 2.01E-01 1.94E+00 6.28E-02 1.6E+01 7.85E-01 99% Chebyshev 23 or Indeno(1,2,3-cd)pyrene 1.72E+04 6.09E+04 1.11E+04 1.88E+04 95% Student's-t 48 or Indeno(1,2,3-cd)pyrene 2.37E+02 9.40E+00 5.0E+02 4.68E+01 95% Chebyshev 42 or Indeno(1,2,3-cd)pyrene 2.37E+02 9.40E+00 5.0E+02 4.68E+01 95% Student's-t 48 or Indeno(1,2,3-cd)pyrene 1.87E+01 2.76E+01 5.43E+00 1.1E+04 1.96E+01 95% Student's-t 48 or Indeno(1,2,3-cd)pyrene 3.32E+02 1.01E+03 8.76E+01 1.4E+04 3.83E+02 95% Approx. Gamma 48 or Indeno(1,2,3-cd)pyrene 3.24E+00 3.24E+00 1.30E-01 1.8E+03 7.63E-01 95% Approx. Gamma 48 or Indeno(1,2,3-cd)pyrene 1.54E-01 1.64E+00 1.59E-02 3.7E+03 4.32E-01 99% Chebyshev 12 or Indeno(1,2,3-cd)pyrene 1.54E-01 1.64E+00 1.59E-02 3.7E+03 4.32E-01 99% Chebyshev 19 or Indeno(1,2,3-cd)pyrene 1.54E-01 1.64E+00 1.59E-02 3.7E+03 4.32E-01 99% Chebyshev 19 or Indeno(1,2,3-cd)pyrene 1.54E-01 1.64E+00 1.59E-02 3.7E+03 4.32E-01 99% Chebyshev 19 or Indeno(1,2,3-cd)pyrene 1.54E-01 1.64E+00 1.59E-02 3.7E+03 4.32E-01 99% Chebyshev 19 or Indeno(1,2,3-cd)pyrene 1.54E-01 1.64E+00 1.59E-02 3.7E+03 4.32E-01 99% Chebyshev 19 or Indeno(1,2,3-cd)pyrene 1.54E-01 1.64E+00 1.59E-02 3.7E+03 6.63E-01 99% Chebyshev 19 or Indeno(1,2,3-cd)pyrene 1.54E-01 1.64E+00 1.59E-02 3.7E+03 6.63E-01 99% Chebyshev 19 or Indeno(1,2,3-cd)pyrene 1.54E-01 6.87E+01 8.85E+00 9.2E+04 1.26E-00 95% Chebyshev 4 or Indeno(1,2,3-cd)pyrene 1.54E-01 6.87E+01 6.87E+01 6.87E+01 6.87E+01								9 of 48
Fluoranthene								3 of 48
Fluorene								13 of 48
gamma-Chlordane 4.05E-04 3.60E-03 7.69E-04 4.1E+01 8.27E-04 95% Chebyshev 4 of Indeno(1,2,3-cd)pyrene 2.01E-01 1.94E+00 6.28E-02 1.6E+01 7.85E-01 99% Chebyshev 23 o Iron 1.72E+04 6.09E+04 1.11E+04 1.88E+04 95% Student's-t 48 o Lead 2.54E+01 2.37E+02 9.40E+00 5.0E+02 4.68E+01 95% Chebyshev 48 o Lithium 1.87E+01 2.76E+01 5.43E+00 1.1E+04 1.96E+01 95% Chebyshev 48 o Manganese 3.32E+02 1.01E+03 8.76E+01 1.4E+04 3.83E+02 95% Approx. Gamma 48 o Mercury 1.99E-02 8.10E-02 6.10E-03 3.4E+01 2.68E-02 95% H-UCL 26 o Molybdenum 5.81E-01 3.24E+00 1.30E-01 1.8E+03 7.63E-01 95% Approx. Gamma 38 o Nickel 1.73E+01 2.77E+01 1.09E+01 1.4E+03 1.81E+01 95% Student's-t 48 o<								4 of 48
Indeno(1,2,3-cd)pyrene 2.01E-01 1.94E+00 6.28E-02 1.6E+01 7.85E-01 99% Chebyshev 23 o Iron 1.72E+04 6.09E+04 1.11E+04 1.88E+04 95% Student's-t 48 or Lead 2.54E+01 2.37E+02 9.40E+00 5.0E+02 4.68E+01 95% Chebyshev 48 or Lithium 1.87E+01 2.76E+01 5.43E+00 1.1E+04 1.96E+01 95% Chebyshev 48 or Manganese 3.32E+02 1.01E+03 8.76E+01 1.4E+04 3.83E+02 95% Approx. Gamma 48 or Mercury 1.99E-02 8.10E-02 6.10E-03 3.4E+01 2.68E-02 95% H-UCL 26 or Molybdenum 5.81E-01 3.24E+00 1.30E-01 1.8E+03 7.63E-01 95% Approx. Gamma 38 or Nickel 1.73E+01 2.77E+01 1.09E+01 1.4E+03 1.81E+01 95% Approx. Gamma 38 or Pyrene 1.54E-01 1.54E+00 2.30E-02 3.7E+03 4.32E-01 99% Chebyshev 12 or<								4 of 48
Iron 1.72E+04 6.09E+04 1.11E+04 1.88E+04 95% Student's-t 48 or Lead 2.54E+01 2.37E+02 9.40E+00 5.0E+02 4.68E+01 95% Chebyshev 48 or Lithium 1.87E+01 2.76E+01 5.43E+00 1.1E+04 1.96E+01 95% Student's-t 48 or Manganese 3.32E+02 1.01E+03 8.76E+01 1.4E+04 3.83E+02 95% Approx. Gamma 48 or Mercury 1.99E-02 8.10E-02 6.10E-03 3.4E+01 2.68E-02 95% H-UCL 26 or Molybdenum 5.81E-01 3.24E+00 1.30E-01 1.8E+03 7.63E-01 95% Approx. Gamma 38 or Nickel 1.73E+01 2.77E+01 1.09E+01 1.4E+03 1.81E+01 95% Approx. Gamma 38 or Phenanthrene 7.61E-02 1.30E+00 2.30E-02 3.7E+03 4.32E-01 99% Chebyshev 12 or Pyrene 1.54E-01 1.64E+00 1.59E-02 3.7E+03 6.63E-01 99% Chebyshev 19 or	<u> </u>							23 of 48
Lead 2.54E+01 2.37E+02 9.40E+00 5.0E+02 4.68E+01 95% Chebyshev 48 or Lithium 1.87E+01 2.76E+01 5.43E+00 1.1E+04 1.96E+01 95% Student's-t 48 or Manganese 3.32E+02 1.01E+03 8.76E+01 1.4E+04 3.83E+02 95% Approx. Gamma 48 or Mercury 1.99E-02 8.10E-02 6.10E-03 3.4E+01 2.68E-02 95% H-UCL 26 or Molybdenum 5.81E-01 3.24E+00 1.30E-01 1.8E+03 7.63E-01 95% Approx. Gamma 38 or Nickel 1.73E+01 2.77E+01 1.99E+01 1.4E+03 1.81E+01 95% Approx. Gamma 38 or Phenanthrene 7.61E-02 1.30E+00 2.30E-02 3.7E+03 4.32E-01 95% Chebyshev 12 or Pyrene 1.54E-01 1.64E+00 1.59E-02 3.7E+03 4.32E-01 99% Chebyshev 19 or Strontium 6.70E+01 3.30E+02 1.88E+01 1.5E+05 7.64E+01 95% Chebyshev 4 or<					1.05701			48 of 48
Lithium 1.87E+01 2.76E+01 5.43E+00 1.1E+04 1.96E+01 95% Student's-t 48 of Manganese 3.32E+02 1.01E+03 8.76E+01 1.4E+04 3.83E+02 95% Approx. Gamma 48 of Mercury 1.99E-02 8.10E-02 6.10E-03 3.4E+01 2.68E-02 95% H-UCL 26 of Molybdenum 5.81E-01 3.24E+00 1.30E-01 1.8E+03 7.63E-01 95% Approx. Gamma 38 of Nickel 1.73E+01 2.77E+01 1.99E+01 1.4E+03 1.81E+01 95% Approx. Gamma 38 of Phenanthrene 7.61E-02 1.30E+00 2.30E-02 3.7E+03 4.32E-01 95% Chebyshev 12 of Pyrene 1.54E-01 1.64E+00 1.59E-02 3.7E+03 6.63E-01 99% Chebyshev 19 of Strontium 6.70E+01 3.30E+02 1.88E+01 1.5E+05 7.64E+01 95% Chebyshev 4 of Tifalianium 2.91E+01 6.87E+01 8.15E+00 9.2E+04 1.26E+00 95% Chebyshev <td< td=""><td></td><td></td><td></td><td></td><td>E 0E+02</td><td></td><td></td><td></td></td<>					E 0E+02			
Manganese 3.32E+02 1.01E+03 8.76E+01 1.4E+04 3.83E+02 95% Approx. Gamma 48 of Mercury Mercury 1.99E-02 8.10E-02 6.10E-03 3.4E+01 2.68E-02 95% H-UCL 26 of Molybdenum Molybdenum 5.81E-01 3.24E+00 1.30E-01 1.8E+03 7.63E-01 95% Approx. Gamma 38 of Mercury Nickel 1.73E+01 2.77E+01 1.09E+01 1.4E+03 1.81E+01 95% Approx. Gamma 48 of Mercury Phenanthrene 7.61E-02 1.30E+00 2.30E-02 3.7E+03 4.32E-01 99% Chebyshev 12 of Mercury Pyrene 1.54E-01 1.64E+00 1.59E-02 3.7E+03 6.63E-01 99% Chebyshev 19 of Mercury Strontium 6.70E+01 3.30E+02 1.88E+01 1.5E+05 7.64E+01 95% H-UCL 48 of Mercury Tin ⁽³⁾ 6.38E-01 4.61E+00 3.45E+00 9.2E+04 1.26E+00 95% Chebyshev 4 of Mercury Titanium 2.91E+01 6.87E+01 8.15E+00 1.0E+06 <								
Mercury 1.99E-02 8.10E-02 6.10E-03 3.4E+01 2.68E-02 95% H-UCL 26 of Molybdenum 5.81E-01 3.24E+00 1.30E-01 1.8E+03 7.63E-01 95% Approx. Gamma 38 of Nickel 1.73E+01 2.77E+01 1.09E+01 1.4E+03 1.81E+01 95% Student's-t 48 of Phenanthrene 7.61E-02 1.30E+00 2.30E-02 3.7E+03 4.32E-01 99% Chebyshev 12 of Pyrene 1.54E-01 1.64E+00 1.59E-02 3.7E+03 6.63E-01 99% Chebyshev 19 of Strontium 6.70E+01 3.30E+02 1.8E+01 1.5E+05 7.64E+01 95% H-UCL 48 of Tini ⁽³⁾ 6.38E-01 4.61E+00 3.45E+00 9.2E+04 1.26E+00 95% Chebyshev 4 of Titanium 2.91E+01 6.87E+01 8.15E+00 1.0E+06 3.27E+01 95% Approx. Gamma 48 of Toluene 6.55E-04 2.14E-03 1.57E-03 5.9E+04 1.20E-03 95% Chebyshev 3 of								
Molybdenum 5.81E-01 3.24E+00 1.30E-01 1.8E+03 7.63E-01 95% Approx. Gamma 38 or Nickel 1.73E+01 2.77E+01 1.09E+01 1.4E+03 1.81E+01 95% Student's-t 48 or Phenanthrene 7.61E-02 1.30E+00 2.30E-02 3.7E+03 4.32E-01 99% Chebyshev 12 or Pyrene 1.54E-01 1.64E+00 1.59E-02 3.7E+03 6.63E-01 99% Chebyshev 19 or Strontium 6.70E+01 3.30E+02 1.88E+01 1.5E+05 7.64E+01 95% H-UCL 48 or Tinis 6.38E-01 4.61E+00 3.45E+00 9.2E+04 1.26E+00 95% Chebyshev 4 or Titanium 2.91E+01 6.87E+01 8.15E+00 1.0E+06 3.27E+01 95% Approx. Gamma 48 or Toluene 6.55E-04 2.14E-03 1.57E-03 5.9E+04 1.20E-03 95% Chebyshev 3 of Vanadium 2.17E+01 3.20E+01 9.02E+00 3.3E+02 2.28E+01 95% Student's-t 48 or <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
Nickel 1.73E+01 2.77E+01 1.09E+01 1.4E+03 1.81E+01 95% Student's-t 48 or Phenanthrene 7.61E-02 1.30E+00 2.30E-02 3.7E+03 4.32E-01 99% Chebyshev 12 or Pyrene 1.54E-01 1.64E+00 1.59E-02 3.7E+03 6.63E-01 99% Chebyshev 19 or Strontium 6.70E+01 3.30E+02 1.88E+01 1.5E+05 7.64E+01 95% H-UCL 48 or Tin ⁽³⁾ 6.38E-01 4.61E+00 9.2E+04 1.26E+00 95% Chebyshev 4 or Titanium 2.91E+01 6.87E+01 8.15E+00 1.0E+06 3.27E+01 95% Approx. Gamma 48 or Toluene 6.55E-04 2.14E-03 1.57E-03 5.9E+04 1.20E-03 95% Chebyshev 3 of Vanadium 2.17E+01 3.20E+01 9.02E+00 3.3E+02 2.28E+01 95% Student's-t 48 or								
Phenanthrene 7.61E-02 1.30E+00 2.30E-02 3.7E+03 4.32E-01 99% Chebyshev 12 of Pyrene 1.54E-01 1.64E+00 1.59E-02 3.7E+03 6.63E-01 99% Chebyshev 19 of Strontium 6.70E+01 3.90E+02 1.88E+01 1.5E+05 7.64E+01 95% H-UCL 48 of Tin ⁽³⁾ 6.38E-01 4.61E+00 3.45E+00 9.2E+04 1.26E+00 95% Chebyshev 4 of Titanium 2.91E+01 6.87E+01 8.15E+00 1.0E+06 3.27E+01 95% Aprox. Gamma 48 of Toluene 6.55E-04 2.14E-03 1.57E-03 5.9E+04 1.20E-03 95% Chebyshev 3 of Vanadium 2.17E+01 3.20E+01 9.02E+00 3.3E+02 2.28E+01 95% Student's-t 48 of								38 of 48
Pyrene 1.54E-01 1.64E+00 1.59E-02 3.7E+03 6.63E-01 99% Chebyshev 19 or								48 of 48 12 of 48
Strontium 6.70E+01 3.30E+02 1.88E+01 1.5E+05 7.64E+01 95% H-UCL 48 or Tin ⁽³⁾ 6.38E-01 4.61E+00 3.45E+00 9.2E+04 1.26E+00 95% Chebyshev 4 of Titanium 2.91E+01 6.87E+01 8.15E+00 1.0E+06 3.27E+01 95% Approx. Gamma 48 or Toluene 6.55E-04 2.14E-03 1.57E-03 5.9E+04 1.20E-03 95% Chebyshev 3 of Vanadium 2.17E+01 3.20E+01 9.02E+00 3.3E+02 2.28E+01 95% Student's-t 48 or								12 of 48 19 of 48
Tin ⁽³⁾ 6.38E-01 4.61E+00 3.45E+00 9.2E+04 1.26E+00 95% Chebyshev 4 of Titanium 2.91E+01 6.87E+01 8.15E+00 1.0E+06 3.27E+01 95% Approx. Gamma 48 of Toluene 6.55E-04 2.14E-03 1.57E-03 5.9E+04 1.20E-03 95% Chebyshev 3 of Vanadium 2.17E+01 3.20E+01 9.02E+00 3.3E+02 2.28E+01 95% Student's-t 48 of								48 of 48
Titanium 2.91E+01 6.87E+01 8.15E+00 1.0E+06 3.27E+01 95% Approx. Gamma 48 or Toluene 6.55E-04 2.14E-03 1.57E-03 5.9E+04 1.20E-03 95% Chebyshev 3 of Vanadium 2.17E+01 3.20E+01 9.02E+00 3.3E+02 2.28E+01 95% Student's-t 48 or								4 of 48
Toluene 6.55E-04 2.14E-03 1.57E-03 5.9E+04 1.20E-03 95% Chebyshev 3 of Vanadium 2.17E+01 3.20E+01 9.02E+00 3.3E+02 2.28E+01 95% Student's-t 48 or								4 of 48 48 of 48
Vanadium 2.17E+01 3.20E+01 9.02E+00 3.3E+02 2.28E+01 95% Student's-t 48 of								
								3 of 48
ZINC 1.39E+U2 9.03E+U2 3.15E+U1 7.5E+U4 2.35E+U2 95% Chebysnev 53.0								48 of 48
	ZIIIC	1.39E+02	9.03E+02	3,10E+01	/.oc+U4	∠,30⊑+02	95% Chebysnev	20 01 23

^{*} Chemicals of interest are any chemical measured in at least one sample at a frequency of detection greater than five percent. Bolded compounds have a maximum concentration that exceeded the screening value.

^{(1) -} Tot Sed_{Comb} PCL = TCEQ Protective Concentration Level for total sediment combined pathway (includes inhalation; ingestion; dermal pathways).

^{(2) -} Recommended exposure point concentration to be used based on data distribution per Pro UCL (see Appendix A). When the compound was not detected in a given sample, one-half of the sample detection limit was used as the proxy concentration for that sample.

(3) - Samples 2WSED8, SWSED10, 4WSED2, and 4WSED3 were re-analyzed for antimony, boron, and tin because theinitial data indicated concentrations much

⁶⁷- Samples 2WSED8, SWSED10, 4WSED2, and 4WSED3 were re-analyzed for antimony, boron, and tin because theinitial data indicated concentrations much higher than data for the rest of the samples although QA/QC indicated that they were acceptable. The re-analysis was run twice with good concurrence between the two re-analyses but with very different values from the original so the first re-analyzed value was used in the UCL calculation.

TABLE 14 EXPOSURE POINT CONCENTATIONS (mg/kg) POND SEDIMENT

Chemical of Interest*	Average	Max Detection	Min Detection	TotSed _{Comb} (1)	RME EPC	Statistic Used (2)	# of Detects/# of Samples
2,4,6-Trichlorophenol	1.75E-02	4.29E-02	4.29E-02	1.3E+03	4.29E-02	RME EPC is max detect	1 of 8
4,4'-DDD	6.96E-03	6.76E-04	6.76E-04	1.2E+02	6.76E-04	RME EPC is max detect*	3 of 8
4,4'-DDT	4.16E-03	1.57E-03	1.11E-03	8.7E+01	1.57E-03	RME EPC is max detect*	1 of 8
Acetone	2.38E-02	7,98E-02	7.98E-02	6.6E+05	7.98E-02	RME EPC is max detect	1 of 8
Aluminum	1.17E+04	1.63E+04	7.99E+03	1.5E+05	1.63E+04	RME EPC is max detect	8 of 8
Antimony	7.95E-01	1.85E+00	3,30E-01	8.3E+01	1.85E+00	RME EPC is max detect	8 of 8
Arsenic	1.74E+00	5.01E+00	3.39E+00	1.1E+02	5.01E+00	RME EPC is max detect	3 of 8
Barium	1.99E+02	4.17E+02	1.08E+02	2.3E+04	4.17E+02	RME EPC is max detect	8 of 8
Benzo(b)fluoranthene	4.77E-02	1.06E-01	2.93E-02	1.6E+01	1.06E-01	RME EPC is max detect	6 of 8
Benzo(g,h,i)perylene	2.40E-02	1.35E-01	1.35E-01	3.7E+03	1.35E-01	RME EPC is max detect	1 of 8
Benzo(k)fluoranthene	5.27E-02	1.30E-01	1.10E-01	1.6E+02	1.30E-01	RME EPC is max detect	3 of 8
Beryllium	8.34E-01	1.13E+00	5.80E-01	2.7E+01	1.13E+00	RME EPC is max detect	8 of 8
beta-BHC	7.96E-03	6.99E-04	6.99E-04	1.4E+01	7.00E-04	RME EPC is max detect*	1 of 8
Boron	1.50E+01	2.84E+01	1.10E+01	1.1E+05	2.84E+01	RME EPC is max detect	5 of 8
Bromomethane	8.90E-03	3.10E-02	1.40E-02	1.0E+03	3.10E-02	RME EPC is max detect	2 of 8
Cadmium	1.47E-01	2.70E-01	1.90E-01	1.1E+03	2.70E-01	RME EPC is max detect	5 of 8
Carbon Disulfide	1.40E-03	7.71E-03	7.71E-03	7.3E+04	7.70E-03	RME EPC is max detect	1 of 8
Chromium	1.29E+01	2.01E+01	8.29E+00	3.6E+04	2.01E+01	RME EPC is max detect	8 of 8
Chrysene	9,50E-03	2.57E-02	2.57E-02	1.6E+03	2.57E-02	RME EPC is max detect	1 of 8
Cobalt	6.94E+00	8.99E+00	5.19E+00	3.2E+04	8.99E+00	RME EPC is max detect	8 of 8
Copper	1.52E+01	2.68E+01	8.33E+00	2.1E+04	2.68E+01	RME EPC is max detect	8 of 8
Iron	1.53E+04	2.01E+04	1.13E+04		2.01E+04	RME EPC is max detect	8 of 8
Lead	1.75E+01	3.05E+01	1.06E+01	5.0E+02	3.05E+01	RME EPC is max detect	8 of 8
Lithium	1.85E+01	2.37E+01	1.35E+01	1.1E+04	2.37E+01	RME EPC is max detect	8 of 8
m,p-Cresol	1.49E-02	3.75E-02	3.75E-02		3.75E-02	RME EPC is max detect	1 of 8
Manganese	4.88E+02	7.11E+02	3.52E+02	1.4E+04	7.11E+02	RME EPC is max detect	8 of 8
Methyl lodide	8.10E-03	4.10E-02	4.10E-02	1.0E+03	1.11E-02	RME EPC is max detect	1 of 8
Molybdenum	1.46E-01	6.00E-01	2.10E-01	1.8E+03	6.00E-01	RME EPC is max detect	2 of 8
Nickel	1.63E+01	2.06E+01	1.23E+01	1.4E+03	2.06E+01	RME EPC is max detect	8 of 8
Pyrene	1.47E-02	2.65E-02	2.01E-02	3.7E+03	2.65E-02	RME EPC is max detect	3 of 8
Strontium	1.04E+02	1.81E+02	6.33E+01	1.5E+05	1.81E+02	RME EPC is max detect	8 of 8
Titanium	3.00E+01	4.05E+01	1.91E+01	1.0E+06	4.05E+01	RME EPC is max detect	8 of 8
Vanadium	2.18E+01	2.74E+01	1.68E+01	3.3E+02	2.74E+01	RME EPC is max detect	8 of 8
Zinc	3.32E+02	9.99E+02	3.82E+01	7.6E+04	9.99E+02	RME EPC is max detect	8 of 8

^{*}The maximum detected value is sometimes lower than the average since 1/2 of the reporting limit was used as a proxy value when it was not detected, and because J flagged (estimated) data were used in the risk assessment.

^{**}Chemicals of interest are any chemical measured in at least one sample at a frequency of detection greater than five percent. Bolded compounds have a maximum concentration that exceeded the screening value.

maximum concentration that exceeded the screening value.

(1) _ TetSed_{Comb} PCL = TCEQ Protective Concentration Level for total sediment combined pathway (includes inhalation; ingestion; dermal pathways).

^{(2) -} Recommended exposure point concentration to be used based on data distribution per Pro UCL (see Appendix A). When the compound was not detected in a given sample, one-half of the sample detection limit was used as the proxy concentration for that sample.

TABLE 15 EXPOSURE POINT CONCENTRATIONS (mg/kg) BACKGROUND SOIL+

							<u> </u>	<u> </u>
	1							
					EPA Region 6]
		Max			Soil Screening		Statistic	# of Detects/# of
Chemical of Interest**	1	Detection	Min Detection	Toto - :: (1)	Criteria ⁽²⁾	95% UCL	Used (3)	
	Average			TotSoil _{Comb} (1)				Samples
Antimony	0.953	2.19	0.25	3.1E+02	4.5E+02	2.19	Maximum*	5 of 10
Arsenic	3.438	5.9	0.24	2.0E+02	1.8E+00	4.477	95% Student's-t	10 of 10
Barium	333.1	1130	150	8.9E+04	7.9E+04	502.3	95% Approx. Gamma	10 of 10
Benzo(a)anthracene	0.0116	0.082	0,082	2.4E+01	2,3E+00	0.0457	95% Chebyshev	1 of 10
Benzo(a)pyrene	0.0122	0.076	0.076	2.4E+00	2.3E-01	0.0431	95% Chebyshev	1 of 10
Benzo(b)fluoranthene	0.00941	0.057	0.057	2.4E+01	2.3E+00	0.0325	95% Chebyshev	1 of 10
Benzo(g,h,i)perylene	0.0241	0.083	0.083	1.9E+04		0.0527	95% Chebyshev	1 of 10
Benzo(k)fluoranthene	0.0158	0.106	0.106	2.4E+02	2.3E+01	0.0595	95% Chebyshev	_ 1 of 10
Cadmium	0.0311	0.11	0.041	8.5E+02	5,6E+02	0.11	Maximum*	3 of 10
Carbazole	0.00512	0.011	0.011	9.5E+02	9.6E+01	0.00636	95% Student's-t	1 of 10
Chromium	15.2	20.1	10.7	5.7E+04	5.0E+02	16.95	95% Student's-t	10 of 10
Chrysene	0.0145	0.083	0.083	2.4E+03	2.3E+02	0.0477	95% Chebyshev	1 of 10
Copper	12.12	19.3	7.68	3.7E+04	4.2E+04	14.41	95% Student's-t	10 of 10
Fluoranthene	0.0208	0.156	0.156	2.5E+04	2.4E+04	0.156	Maximum*	1 of 10
Indeno(1,2,3-cd)pyrene	0.0551	0.417	0.417	2.4E+01	2.3E+00	0.417	Maximum*	1 of 10
Lead	13.43	15.2	11	_ 1.6E+03	8.0E+02	14.33	95% Student's-t	10 of 10
Lithium	21.14	32.5	14.4	1.9E+03	2.3E+04	24.13	95% Student's-t	10 of 10
Manganese	377.4	551	284	2.4E+04	3.5E+04	431.8	95% Student's-t	10 of 10
Mercury	0.0213	0.03	0.015	3.3E+00	3.4E+02	0.0241	95% Student's-t	10 of 10
Molybdenum	0.522	0.68	0.42	4.5E+03	5.7E+03	0.565	95% Student's-t	10 of 10
Phenanthrene	0.0167	0.137	0.137	1.9E+04		0.137	Maximum*	1 of 10
Pyrene	0.0218	0.127	0.127	1.9E+04	3.2E+04	0.0728	95% Chebyshev	1 of 10
Zinc	247	969	36.6	2.5E+05	1.0E+05	969	Maximum*	10 of 10

- ** Recommended UCL exceeds maximum observation, so the maximum measured concentration was used as the EPC.

 + Soil was collected from 0 to 4 ft. below ground surface.

 ** Chemicals of interest are any chemical measured in at least one sample. Bolded compounds have a maximum concentration that exceeded the screening value.

 (1) _ TotSoil_Comb PCL = TCEQ Protective Concentration Level for 30 acre source area Commercial/Industrial total soil combined pathway (includes inhalation; ingestion; dermal pathways).

 [2] - From EPA's "Region 6 Human Health Medium-Specific Screening Levels 2004-2005". Industrial Outdoor Worker.

 [3] - Recommended exposure point concentration to be used based on data distribution per Pro UCL (see Appendix A). When the compound was not detected in a given sample, one-half of the sample detection limit was used as the proxy concentration for that sample.

TABLE 16
BACKGROUND COMPARISONS

HYPOTHESIS TESTED: ARE SITE DATA STATISTICALLY DIFFERENT THAN BACKGROUND DATA?(1) INTRACOASTAL SOUTH AREA SURFACE **SOUTH AREA** NORTH AREA SURFACE **NORTH AREA WATERWAY** SEDIMENT CHEMICAL OF INTEREST SOIL SOIL SOIL SOIL WETLANDS SEDIMENT POND SEDIMENT Aluminum NA NA NA NA Yes* NA NA Antimony No No No Yes* No No No Arsenic No No No No Yes* No Yes* Barium No No Yes* Yes* No Yes* No Beryllium NA NA NA NA Yes* NA NA Boron NA NA NA NA Yes* NA NA Cadmium No Νo Yes Yes* Yes NA Yes Chromium No Nο No No NA No No Cobalt NA NA NA NA Yes* NA NA Copper Yes No No No No No No Iron NA NA NA NA No NA No Lead Yes No No No No Yes No Lithium Yes* Yes* Yes* Nο Yes* No No Manganese Yes* Yes* No No No No Yes Mercury No No Yes* Yes* No No NA Molybdenum Yes Νo No No No No Yes* Nickel NA NA NA NA No NA NA Strontium NA NA NA NA Yes* NA NA Titanium NA NA NA NA Yes* NA NA Vanadium NA NA NA NA Yes* NA NA Zinc Yes No No No No No No

Notes:

NA - No analysis was performed for compound in background.

⁽¹⁾ Detailed statistical procedures are outlined in Section 2.2.2 and calculations are provided in Appendix B.

^{*} Statistical difference is due to background being greater than site.

TABLE 17
PCOCS IDENTIFIED AND QUANTITATIVELY EVALUATED IN THE BHHRA*

SOUTH AREA SOIL**	NORTH AREA SOIL**	INTRACOASTAL WATERWAY SURFACE WATER	INTRACOASTAL WATERWAY SEDIMENT	WETLANDS SURFACE WATER	WETLANDS SEDIMENT	POND SURFACE WATER	POND SEDIMENT
4,4'-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(b)fluoranthene Benzo(k)fluoranthene Dibenz(a,h)anthracene Dieldrin Indeno(1,2,3-cd)pyrene Iron Isopropylbenzene (cumene) Lead Naphthalene	1,2-Dichloroethane Aluminium Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Dibenz(a,h)anthracene Indeno(1,2,3-cd)pyrene Iron Tetrachloroethene		Benzo(a)pyrene Dibenz(a,h)anthracene Iron		Aluminum Benzo(a)pyrene Dibenz(a,h)anthracene Indeno(1,2,3-cd)pyrene Iron		Aluminum Iron m,p-Cresol

- * Groundwater was not included in the table because all compounds measured in groundwater were evaluated quantitatively in the BHHRA.
- ** Soil includes both surface and subsurface soil for the purposes of this table.
- + All COIs for surface water screened out, as discussed in Section 2.2.1.

TABLE 18
EXPOSURE SCENARIOS BY MEDIA

MEDIA	Future On-Site Industrial Worker Receptor	Future On-Site Construction Worker Receptor	Potential Current Youth Trespasser	Potential Current Contact Recreation	Potential Current Off- Site Residential Receptor
South Area Surface Soil	X ⁽¹⁾	X ⁽¹⁾	X ⁽¹⁾		X ⁽²⁾
South Area Soil	X ⁽¹⁾	X ⁽¹⁾	X (1)		X (3)
South Area Groundwater	X ⁽⁶⁾				
Intracoastal Waterway Surface Water				X ⁽⁴⁾	
Intracoastal Waterway Sediment				X ⁽⁵⁾	
Intracoastal Waterway Fish					Х*
North Area Surface Soil	X ⁽¹⁾	X ⁽¹⁾	X ⁽¹⁾		
North Area Soil	X ⁽¹⁾	X ⁽¹⁾	X ⁽¹⁾		
North Area Groundwater	X ⁽⁷⁾				
North Area Wetlands Surface Water		X ⁺	X ⁽¹²⁾	X ⁽⁸⁾	
North Area Wetlands Sediment		X ⁺	X (12)	X ⁽⁹⁾	
North Area Ponds Surface Water		X ⁺	X ⁽¹²⁾	X (10)	
North Area Ponds Sediment		X ⁺	X ⁽¹²⁾	X (11)	

^{*} EPA-approved fish ingestion pathway risk assessment (PBW, 2007) concluded that this pathway does not pose a human health threat.

^{*} Exposure for this receptor was not quantified since exposure would be approximately four times less than the acceptable risk calculated for the contact recreation receptor. due to the less exposure incurred for the worker given the differences in exposure frequency and duration.

⁽¹⁾ Risks presented in Table 23.

⁽²⁾ Risks presented in Table 24.

⁽³⁾ Risks presented in Table 25.

⁽⁴⁾ Screening evaluation presented in Table 4.

⁽⁵⁾ Screening evaluation presented in Table 6.

⁽⁶⁾ Risks presented in Table 26.

⁽⁷⁾ Risks presented in Table 27.

⁽⁸⁾ Screening evaluation presented in Table 11.

⁽⁹⁾ Screening evaluation presented in Table 13.

⁽¹⁰⁾ Screening evaluation presented in Table 12.

⁽¹¹⁾ Screening evaluation presented in Table 14.

Trespasser risks were assumed to be equivalent to the contact recreation receptor.

TABLE 19
EXPOSURE ASSUMPTIONS FOR THE INDUSTRIAL WORKER SCENARIO

PARAMETER	DEFINITION	AVERAGE VALUE	REFERENCE	RME VALUE	REFERENCE
PEF	Particulate Emission Factor (m^3/kg)	1.00E+09	EPA, 2004a	1.00E+09	EPA, 2004a
IR	Ingestion rate of soil (mg/day)	50	EPA, 2004a	50	EPA, 2004a
SA	Skin surface area (cm2)	3300	EPA, 2004a	3300	EPA, 2004a
AF	Soil to skin adherence factor (mg/cm2)	0.021	EPA, 2001a	0.2	EPA, 2004a
EF	Exposure frequency (day/yr)	250	EPA, 2004a	250	EPA, 2004a
ED	Exposure duration (yr)	25	EPA, 2004a	25	EPA, 2004a
BW	Body weight (kg)	70	EPA, 1989	70	EPA, 1989
ATc	Averaging time for carcinogens (days)	25550	EPA, 1989	25550	EPA, 1989
ATnc	Averaging time for noncarcinogens (days)	9125	EPA, 1989	9125	EPA, 1989

TABLE 20 EXPOSURE ASSUMPTIONS FOR THE CONSTRUCTION WORKER SCENARIO

		AVERAGE		RME	
PARAMETER_	DEFINITION	VALUE	REFERENCE	VALUE	REFERENCE
PEF	Particulate Emission Factor (m^3/kg)	1.00E+09	EPA, 2004a	1.00E+09	EPA, 2004a
IR	Ingestion rate of soil (mg/day)	165	professional judgment	330	EPA, 2001
SA	Skin surface area (cm2)	3300	EPA, 2004a	3300	EPA, 2004a
AF	Soil to skin adherence factor (mg/cm2)	0.14	EPA, 2004b	0.3	EPA, 2004b
EF	Exposure frequency (day/yr)	90	professional judgment	250	professional judgment
ED	Exposure duration (yr)	1	professional judgment	1	professional judgment
BW	Body weight (kg)	70	EPA, 1989	70	EPA, 1989
ATc	Averaging time for carcinogens (days)	25550	EPA, 1989	25550	EPA, 1989
ATnc	Averaging time for noncarcinogens (days)	365	EPA, 1989	365	EPA, 1989

TABLE 21
EXPOSURE ASSUMPTIONS FOR THE YOUTH TRESPASSER SCENARIO

PARAMETER	DEFINITION	AVERAGE VALUE	REFERENCE	RME VALUE	REFERENCE
					
PEF	Particulate Emission Factor (m^3/kg)	1.00E+09	EPA, 2004a	1.00E+09	EPA, 2004a
IR	Ingestion rate of soil (mg/day)	100	TNRCC, 1998	100	TNRCC, 1998
SA	Skin surface area (cm2)	3500	TNRCC, 1998	3500	TNRCC, 1998
AF	Soil to skin adherence factor (mg/cm2)	0.1	TNRCC, 1998	0.1	TNRCC, 1998
EF	Exposure frequency (day/yr)	25	professional judgment	50	TNRCC, 1998
ED	Exposure duration (yr)	6	professional judgment	12	TNRCC, 1998
BW	Body weight (kg)	40	EPA, 1991a	40	EPA, 1991a
ATc	Averaging time for carcinogens (days)	25550	EPA, 1989	25550	EPA, 1989
ATnc	Averaging time for noncarcinogens (days)	9125	EPA, 1989	9125	EPA, 1989

TABLE 22
EXPOSURE ASSUMPTIONS FOR THE CONTACT RECREATION SCENARIO

		AVERAGE		RME	
PARAMETER	DEFINITION	VALUE	REFERENCE	VALUE	REFERENCE
IR	Ingestion rate of soil or sediment (mg/day)	100	TCEQ, 2002	100	TCEQ, 2002
SA	Skin surface area (cm2)	4400	TCEQ, 2002	4400	TCEQ, 2002
AF	Sediment to skin adherence factor (mg/cm2)	0.3	TCEQ, 2002	0.3	TCEQ, 2002
EF	Exposure frequency (day/yr)	19	professional judgment	39	TCEQ, 2002
ED	Exposure duration (yr)	13	professional judgment	25	EPA, 1989
BW	Body weight (kg)	70	EPA, 1989	70	EPA, 1989
ATc	Averaging time for carcinogens (days)	25550	EPA, 1989	25550	EPA, 1989
ATnc	Averaging time for noncarcinogens (days)	9125	EPA, 1989	9125	EPA, 1989

TABLE 23 QUALITATIVE CURRENT OFF-SITE RESIDENTIAL RECEPTOR EVALUATION SOUTH AREA SURFACE SOIL*

Chemical of Interest*	
Chemical of Interest*	# of Detects/# of
2-Metrynaphthalene	Samples
4.4*-DDE 0.0019 0.0893 0.000281 6.2E+02 0.014 97.5% Chebyshev Acenaphthene 0.0595 1.89 0.0113 0.197 97.5% Chebyshev Acenaphthene 0.0595 1.89 0.0113 0.113 97.5% Chebyshev Aluminum 6335 15200 414 0.986 69.5% Shudent's+ Antimorum 6335 15200 414 0.997 97.5% Chebyshev Antimorum 1.181 5.14 0.2 1.959 97.5% Chebyshev Antimory 1.118 5.14 0.2 1.959 97.5% Chebyshev Arcolor-1264 0.137 7.98 0.0034 0.726 97.5% Chebyshev Arsonic 3.735 24.3 0.26 4.535 95% Chebyshev Arsonic 3.735 24.3 0.26 4.535 95% HuCli Berackolaminacene 0.345 5.02 0.0286 1.984 <td>22 of 83</td>	22 of 83
4.4*DDT 0.0038 0.0625 0.000281 6.2E+02 0.014 99% Chebyshev Acenaphthylene 0.0595 1.99 0.0113 0.137 97.5% Chebyshev Acenaphtylene 0.0382 0.935 0.0184 0.113 97.5% Chebyshev Acenaphtylene 0.0382 0.935 0.0184 6.946 95% Chebyshev Antimorum 5335 15200 414 5946 95% Students4 Antimorum 1.119 514 0.0112 0.297 97.5% Chebyshev Antimorum 1.119 514 0.22 1.959 97.5% Chebyshev Antimorum 1.119 514 0.22 1.959 97.5% Chebyshev Antimorum 1.111 524 0.0112 1.959 97.5% Chebyshev Antimorum 1.118 524 0.0334 0.728 97.5% Chebyshev Arricolor 1.224 3.25 2.13 0.28 <t< td=""><td>5 of 83</td></t<>	5 of 83
Acenaphthylene 0.0595 1.99 0.0113 0.113 97.5% Chebyshev Aluminum 6335 15200 414 5946 95% Students-1 Aluminum 6335 15200 414 5946 95% Students-1 Antiracene 0.0961 2.46 0.0112 0.297 97.5% Chebyshev Antimory 1.118 5.14 0.02 1.959 97.5% Chebyshev Arcior-1254 0.137 7.98 0.00334 0.726 97.5% Chebyshev Arcior-1254 0.137 7.98 0.0034 4.535 95% Approx. Gamma Barricologilorene 0.345 5.02 0.0286 1.9E-03 1.211 99% Chebyshev Benzo(alphrene 0.457 4.57 0.0103 4.4E-02 1.457 99% Chebyshev Benzo(billovarithene 0.582 5.42 0.0408 3.2E-03 1.383 95% H-UCL Benzo(phillovarithene 0.324	17 of 83
Acenaphthylene 0.0382 0.935 0.0184 0.113 97.5% Chebyshev Aluminum 5335 15200 4.14 5946 95% Students-1 Anthracene 0.0981 2.46 0.0112 0.297 97.5% Chebyshev Antimory 1.118 5.14 0.2 1.959 97.5% Chebyshev Arcolor-1254 0.137 7.98 0.00334 0.726 97.5% Chebyshev Arcolor-1254 0.137 7.98 0.00334 4.535 95% Approx. Gamma Barrium 3.45.2 2.180 18.6 4.15.1 99% Chebyshev Benzo(al)private 0.345 5.02 0.0286 1.9E+03 1.211 99% Chebyshev Benzo(Difluoranthene 0.582 5.42 0.0408 3.2E+03 1.638 95% H-UCL Benzo(Sill/Juoranthene 0.24 4.25 0.0195 7.8E+04 0.651 97.5% Chebyshev Benzo(Sill/Juoranthene 0.24	37 of 83
Aluminum	26 of 83
Antimacene	19 of 83
Antimory	83 of 83
Aroclor-1254 0.137 7.98 0.00334	37 of 83
Arsenic 3,735 24.3 0.26 4.535 95% Approx. Gamma 245.2 2180 18.6 415.1 95% H-UCL 25% H-UCL	72 of 83
Bartum	13 of 85
Benzo(a)anthracene 0.345 5.02 0.0266 1.9E+03 1.211 99% Chebyshev	71 of 83
Benzo(a)pyrene	83 of 83
Benzo(b)fluoranthene 0.582 5.42 0.0408 3.2E+03 1.638 95% FLUCL	30 of 83
Benzo(k)hiperylene	65 of 83
Benzo(k)fluoranthene	61 of 83
Beryllium	51 of 83
Boron A.662 54.4 2.43 9.663 97.5% Chebyshev	33 of 83
Boron A.662 54.4 2.43 9.663 97.5% Chebyshev	82 of 83
Butyl Phthalate	34 of 83
Cadmium	6 of 83
Carbazole	50 of 83
Chrysene 0.409 4.87 0.00932 3.0E+05 1.322 99% Chebyshev Cobalt 3.705 16 0.049 4.781 95% Chebyshev Copper 27.98 216 1.55 32.45 95% H-UCL Dibenz(a,h)anthracene 0.155 1.64 0.0639 1.0E+03 0.363 97.5% Chebyshev Dibenzofuran 0.0378 0.821 0.0167 0.111 97.5% Chebyshev Dieldrin 0.000997 0.0205 0.000243 1.6E+01 0.003 97.5% Chebyshev Di-n-butyl Phthalate 0.048 0.753 0.0368 1.5E+04 0.0967 95% Chebyshev Endosulfan Sulfate 0.002 0.0713 0.000456 0.0077 97.5% Chebyshev Endrin Aldehyde 0.0023 0.0738 0.000497 0.0084 97.5% Chebyshev Endrin Ketone 0.0016 0.02 0.000469 9.7E+02 0.004 97.5% Chebyshev Fluorenthene 0.799 </td <td>29 of 83</td>	29 of 83
Cobalt 3.705 16 0.049 4.781 95% Chebyshev Copper 27.98 216 1.55 32.45 95% H-UCL Dibenz(a,h)anthracene 0.155 1.84 0.0639 1.0E+03 0.363 97.5% Chebyshev Dibenzofuran 0.0378 0.821 0.0167 0.111 97.5% Chebyshev Dienzofuran 0.00397 0.0205 0.000243 1.6E+01 0.003 97.5% Chebyshev Di-n-butyl Phthalate 0.048 0.753 0.0368 1.5E+04 0.0967 95% Chebyshev Endosulfan Sulfate 0.002 0.0713 0.000456 0.0077 97.5% Chebyshev Endrin Ketone 0.0023 0.0738 0.000497 0.0084 97.5% Chebyshev Endrin Ketone 0.0016 0.02 0.000469 9.7E+02 0.004 97.5% Chebyshev Endrin Ketone 0.799 14.2 0.0133 2.656 95% H-UCL Fluoranthene 0.799	83 of 83
Cobalt 3.705 16 0.049 4.781 95% Chebyshev Copper 27.98 216 1.55 32.45 95% H-UCL Dibenzofuran 0.155 1.84 0.0639 1.0E+03 0.363 97.5% Chebyshev Dibenzofuran 0.0378 0.821 0.0167 0.111 97.5% Chebyshev Dieldrin 0.000997 0.0205 0.000243 1.6E+01 0.003 97.5% Chebyshev Di-n-butyl Phthalate 0.048 0.753 0.0368 1.5E+04 0.0967 95% Chebyshev Endsulfan Sulfate 0.002 0.0713 0.000456 0.0077 97.5% Chebyshev Endrin Aldehyde 0.0023 0.0738 0.000497 0.0084 97.5% Chebyshev Endrin Ketone 0.0016 0.02 0.000469 9.7E+02 0.004 97.5% Chebyshev Endrin Ketone 0.0515 1.11 0.00945 0.155 97.5% Chebyshev Fluoranthene 0.799	56 of 83
Dibenz(a,h)anthracene	82 of 83
Dibenzofuran Dibenza Dibenzofuran Dibenzofuran Dibenzofuran Dibenzofuran Dibenzofuran Dibenzofuran Dibenzofuran Dibenzofuran Dibenzan Dibenzofuran Dibenza Dibenza Dibenza Dibenza Dib	83 of 83
Dibenzofuran Dibenza Dibenzofuran Dibenzofuran Dibenzofuran Dibenzofuran Dibenzofuran Dibenzofuran Dibenzofuran Dibenzofuran Dibenzan Dibenzofuran Dibenza Dibenza Dibenza Dibenza Dib	36 of 83
Di-n-butyl Phthalate 0.048 0.753 0.0368 1.5E+04 0.0967 95% Chebyshev Endosulfan Sulfate 0.002 0.0713 0.000456 0.0077 97.5% Chebyshev Endrin Aldehyde 0.0023 0.0738 0.000497 0.0084 97.5% Chebyshev Endrin Ketone 0.0016 0.02 0.000469 9.7E+02 0.004 97.5% Chebyshev Fluoranthene 0.799 14.2 0.0133 2.656 95% H-UCL Fluorene 0.0515 1.11 0.00945 0.155 97.5% Chebyshev gamma-Chlordane 0.00082679 0.0156 0.00071 5.0E+02 0.0025 97.5% Chebyshev Indeno(1,2,3-cd)pyrene 0.47 6.49 0.0634 1.3E+04 1.115 97.5% Chebyshev Iron 16285 77100 3450 17845 95% H-UCL Lead 69.61 643 2.82 84.5 95% H-UCL Lithium 7.856 <	17 of 83
Endosulfan Sulfate 0.002 0.0713 0.000456 0.0077 97.5% Chebyshev Endrin Aldehyde 0.0023 0.0738 0.000497 0.0084 97.5% Chebyshev Endrin Ketone 0.0016 0.02 0.000469 9.7E+02 0.004 97.5% Chebyshev Fluoranthene 0.799 14.2 0.0133 2.656 95% H-UCL Fluorene 0.0515 1.11 0.00945 0.155 97.5% Chebyshev gamma-Chlordane 0.00082679 0.0156 0.00071 5.0E+02 0.0025 97.5% Chebyshev Indeno(1,2,3-cd)pyrene 0.47 6.49 0.0634 1.3E+04 1.115 97.5% Chebyshev Iron 16285 77100 3450 17845 95% H-UCL Lead 69.61 643 2.82 84.5 95% H-UCL Lithium 7.856 28 0.65 9.055 95% Student's-t Marganese 257.4 892	21 of 83
Endrin Aldehyde 0.0023 0.0738 0.000497 0.0084 97.5% Chebyshev Endrin Ketone 0.0016 0.02 0.000469 9.7E+02 0.004 97.5% Chebyshev Fluoranthene 0.799 14.2 0.0133 2.656 95% H-UCL Fluorene 0.0515 1.11 0.00945 0.155 97.5% Chebyshev gamma-Chlordane 0.00082679 0.0156 0.00071 5.0E+02 0.0025 97.5% Chebyshev Indeno(1,2,3-cd)pyrene 0.47 6.49 0.0634 1.3E+04 1.115 97.5% Chebyshev Iron 16285 77100 3450 17845 95% H-UCL Lead 69.61 643 2.82 84.5 95% H-UCL Lithium 7.856 28 0.65 9.055 95% Approx. Gamma Marganese 257.4 892 59.3 281.1 95% Student's-t Mercury 0.0227 0.66 0.0032 <td>9 of 83</td>	9 of 83
Endrin Aldehyde 0.0023 0.0738 0.000497 0.0084 97.5% Chebyshev Endrin Ketone 0.0016 0.02 0.000469 9.7E+02 0.004 97.5% Chebyshev Fluoranthene 0.799 14.2 0.0133 2.656 95% H-UCL Fluorene 0.0515 1.11 0.00945 0.155 97.5% Chebyshev garma-Chlordane 0.00082679 0.0156 0.00071 5.0E+02 0.0025 97.5% Chebyshev Indeno(1,2,3-cd)pyrene 0.47 6.49 0.0634 1.3E+04 1.115 97.5% Chebyshev Iron 16285 77100 3450 17845 95% H-UCL Lead 69.61 643 2.82 84.5 95% H-UCL Lithium 7.856 28 0.65 9.055 95% Approx. Gamma Marganese 257.4 892 59.3 281.1 95% Student's-t Mercury 0.0227 0.66 0.0032 <td>17 of 83</td>	17 of 83
Endrin Ketone 0.0016 0.02 0.000469 9.7E+02 0.004 97.5% Chebyshev Fluoranthene 0.799 14.2 0.0133 2.656 95% H-UCL Fluorene 0.0515 1.11 0.09945 0.155 97.5% Chebyshev gamma-Chlordane 0.00082679 0.0156 0.00071 5.0E+02 0.0025 97.5% Chebyshev Indeno(1,2,3-cd)pyrene 0.47 6.49 0.0634 1.3E+04 1.115 97.5% Chebyshev Iron 16285 77100 3450 17845 95% H-UCL Lead 69.61 643 2.82 84.5 95% H-UCL Lithium 7.856 28 0.65 9.055 95% Approx. Gamma Manganese 257.4 892 59.3 281.1 95% Student's-t Mercury 0.0227 0.66 0.0032 2.4E+00 0.0254 95% Approx. Gamma Nickel 11.64 36.7 2.84	22 of 83
Fluoranthene 0.799 14.2 0.0133 2.656 95% H-UCL Fluorene 0.0515 1.11 0.00945 0.155 97.5% Chebyshev gamma-Chlordane 0.0082679 0.0156 0.00071 5.0E+02 0.0025 97.5% Chebyshev Indeno(1,2,3-cd)pyrene 0.47 6.49 0.0634 1.3E+04 1.115 97.5% Chebyshev Iron 16285 77100 3450 17845 95% H-UCL Lead 69.61 643 2.82 84.5 95% H-UCL Lithium 7.856 28 0.65 9.055 95% Approx. Gamma Manganese 257.4 892 59.3 281.1 95% Student's-t Mercury 0.0227 0.66 0.0032 2.4E+00 0.0254 95% H-UCL Molybdenum 1.306 8.42 0.098 1.645 95% Approx. Gamma Nickel 11.64 36.7 2.84	18 of 83
gamma-Chlordane 0.00082679 0.0156 0.00071 5.0E+02 0.0025 97.5% Chebyshev Indeno(1,2,3-cd)pyrene 0.47 6.49 0.0634 1.3E+04 1.115 97.5% Chebyshev Iron 16285 77100 3450 17845 95% H-UCL Lead 69.61 643 2.82 84.5 95% H-UCL Lithium 7.856 28 0.65 9.055 95% Approx. Gamma Manganese 257.4 892 59.3 281.1 95% Student's-t Mercury 0.0227 0.66 0.0032 2.4E+00 0.0254 95% H-UCL Molydenum 1.306 8.42 0.098 1.645 95% Approx. Gamma Nickel 11.64 36.7 2.84 12.54 95% Approx. Gamma Phenanthrene 0.512 12.6 0.0139 2.198 99% Chebyshev Pyrene 0.533 8.47 0.0121	59 of 83
gamma-Chlordane 0.00082679 0.0156 0.00071 5.0E+02 0.0025 97.5% Chebyshev Indeno(1,2,3-cd)pyrene 0.47 6.49 0.0634 1.3E+04 1.115 97.5% Chebyshev Iron 16285 77100 3450 17845 95% H-UCL Lead 69.61 643 2.82 84.5 95% H-UCL Lithium 7.856 28 0.65 9.055 95% Approx. Gamma Manganese 257.4 892 59.3 281.1 95% Student's-t Mercury 0.0227 0.66 0.0032 2.4E+00 0.0254 95% H-UCL Molydenum 1.306 8.42 0.098 1.645 95% Approx. Gamma Nickel 11.64 36.7 2.84 12.54 95% Approx. Gamma Phenanthrene 0.512 12.6 0.0139 2.198 99% Chebyshev Pyrene 0.533 8.47 0.0121	28 of 83
Indeno(1,2,3-cd)pyrene	8 of 83
Lead 69.61 643 2.82 84.5 95% H-UCL Lithium 7.856 28 0.65 9.055 95% Approx. Gamma Manganese 257.4 892 59.3 281.1 95% Student's-t Mercury 0.0227 0.66 0.0032 2.4E+00 0.0254 95% H-UCL Molybdenum 1.306 8.42 0.098 1.645 95% Approx. Gamma Nickel 11.64 36.7 2.84 12.54 95% Approx. Gamma Phenanthrene 0.512 12.6 0.0139 2.198 99% Chebyshev Pyrene 0.533 8.47 0.0121 1.366 95% H-UCL Strontium 70.61 527 16.5 101.2 95% Chebyshev	63 of 83
Lead 69.61 643 2.82 84.5 95% H-UCL Lithium 7.856 28 0.65 9.055 95% Approx. Gamma Manganese 257.4 892 59.3 281.1 95% Student's-t Mercury 0.0227 0.66 0.0032 2.4E+00 0.0254 95% H-UCL Molybdenum 1.306 8.42 0.098 1.645 95% Approx. Gamma Nickel 11.64 36.7 2.84 12.54 95% Approx. Gamma Phenanthrene 0.512 12.6 0.0139 2.198 99% Chebyshev Pyrene 0.533 8.47 0.0121 1.366 95% H-UCL Strontium 70.61 527 16.5 101.2 95% Chebyshev	83 of 83
Manganese 257.4 892 59.3 281.1 95% Student's-t Mercury 0.0227 0.66 0.0032 2.4E+00 0.0254 95% H-UCL Molybdenum 1.306 8.42 0.098 1.645 95% Approx. Gamma Nickel 11.64 36.7 2.84 12.54 95% Approx. Gamma Phenanthrene 0.512 12.6 0.0139 2.198 99% Chebyshev Pyrene 0.533 8.47 0.0121 1.366 95% H-UCL Strontium 70.61 527 16.5 101.2 95% Chebyshev	83 of 83
Manganese 257.4 892 59.3 281.1 95% Student's-t Mercury 0.0227 0.66 0.0032 2.4E+00 0.0254 95% H-UCL Molybdenum 1.306 8.42 0.098 1.645 95% Approx. Gamma Nickel 11.64 36.7 2.84 12.54 95% Approx. Gamma Phenanthrene 0.512 12.6 0.0139 2.198 99% Chebyshev Pyrene 0.533 8.47 0.0121 1.366 95% H-UCL Strontium 70.61 527 16.5 101.2 95% Chebyshev	83 of 83
Mercury 0.0227 0.66 0.0032 2.4E+00 0.0254 95% H-UCL Molybdenum 1.306 8.42 0.098 1.645 95% Approx. Gamma Nickel 11.64 36.7 2.84 12.54 95% Approx. Gamma Phenanthrene 0.512 12.6 0.0139 2.198 99% Chebyshev Pyrene 0.533 8.47 0.0121 1.366 95% H-UCL Strontium 70.61 527 16.5 101.2 95% Chebyshev	83 of 83
Molybdenum 1,306 8.42 0,098 1,645 95% Approx. Gamma Nickei 11,64 36.7 2.84 12,54 95% Approx. Gamma Phenanthrene 0.512 12,6 0.0139 2,198 99% Chebyshev Pyrene 0.533 8,47 0.0121 1,366 95% H-UCL Strontium 70.61 527 16.5 101.2 95% Chebyshev	37 of 83
Nickel 11.64 36.7 2.84 12.54 95% Approx. Gamma Phenanthrene 0.512 12.6 0.0139 2.198 99% Chebyshev Pyrene 0.533 8.47 0.0121 1.366 95% H-UCL Strontium 70.61 527 16.5 101.2 95% Chebyshev	71 of 83
Phenanthrene 0.512 12.6 0.0139 2.198 99% Chebyshev Pyrene 0.533 8.47 0.0121 1.366 95% H-UCL Strontium 70.61 527 16.5 101.2 95% Chebyshev	83 of 83
Pyrene 0.533 8.47 0.0121 1.366 95% H-UCL Strontium 70.61 527 16.5 101.2 95% Chebyshev	57 of 83
	57 of 83
	83 of 83
Tin 0.611 4.95 0.52 0.991 95% Chebyshev	23 of 83
Titanium 29.8 645 11.5 63 95% Chebyshev	83 of 83
Vanadium 13.76 45.6 5.42 14.84 95% Approx. Gamma	83 of 83

^{*} Surface soil was collected from 0 to 0.5 ft, below ground surface.

* Chemicals of interest are any chemical measured in at least one sample at a frequency of detection greater than five percent.

(1) - Air Soil_{Inh-V} PCL = TCEQ protective concentration Level for 30 acre source area Residential soil-to-air pathway (inhalation of volatiles and particulates).

^{(2) -} Recommended exposure point concentration to be used based on data distribution per Pro UCL (see Appendix A). When the compound was not detected in a given sample, one-half of the sample detection limit was used as the proxy concentration for that sample.

TABLE 24 QUALITATIVE CURRENT OFF-SITE RESIDENTIAL RECEPTOR EVALUATION SOUTH AREA SOIL*

Chemical of Intorest*								T
Chemical of Interest*								
13.5.FT intellyboracone	Chamical of Interest	Average	1	I	Alro-u (1)	059/ 1101	Ctotiotic Hond (3)	l
2-bearanne								
Zeberannen								
4.4-DDD							97.5% Chebyshev	
\$4-DDE				0.0106		0.341	97.5% Chebyshev	
6.4-DOT								
Acengaphthyme								
Acengethylene					6.2E+02			
Acetone								
Alumbarum								
Antimony 1.023 5.51 0.2 1.576 97.5% Chebyshev 144 of 168 Arcolen-1254 0.205 11.5 0.00334 0.74 97.5% Chebyshev 25 of 170 Arcsenic 3.331 24.3 0.23 4.916 97.5% Chebyshev 139 of 168 Bartum 237.4 2180 18.6 330.4 95% Chebyshev 139 of 168 Bartum 237.4 2180 18.6 330.4 95% Chebyshev 180 of 168 Bartum 237.4 2180 18.6 330.4 95% Chebyshev 180 of 168 Bartum 257.4 2180 18.6 330.4 95% Chebyshev 172 of 38 Bartum 257.4 2180 18.6 330.4 95% Chebyshev 172 of 38 Bartum 257.4 18.8 0.00099 4.4 10.00005 97.5% Chebyshev 40 113 of 168 Bartucolphyrene 0.585 5.02 0.0118 1.9E+03 0.859 B9% Chebyshev 40 113 of 168 Bartucolphyrene 0.466 5.7 0.0408 3.2E+03 1.286 99% Chebyshev 113 of 168 Bartucolphyrene 0.465 5.7 0.0408 3.2E+03 1.286 99% Chebyshev 113 of 168 Bartucolphyrene 0.465 4.6 0.00099 4.4E+02 1.0008 99% Chebyshev 113 of 168 Bartucolphyrene 0.465 4.6 0.00099 4.4E+02 1.0008 99% Chebyshev 113 of 169 Bartucolphyrene 0.465 4.6 0.00099 4.4E+02 1.0008 99% Chebyshev 113 of 169 Bartucolphyrene 0.465 4.6 0.00099 4.4E+02 1.0008 99% Chebyshev 113 of 169 Bartucolphyrene 0.465 4.6 0.00099 4.4E+02 1.00099 99% Chebyshev 113 of 169 Bartucolphyrene 0.465 4.6 0.00099 9.8 (Bartucolphyrene 0.465 4.6 0.00099 9.8 (Bartucolphy								
Acocio-1294 0.205 11.5 0.00334 0.74 97.5% Chebyshev 25 of 170 Arcsenic 3.331 24.3 0.23 4.916 97.5% Chebyshev 139 of 168 Bartum 237.4 2180 18.6 330.4 95% Chebyshev 180 of 168 Benzene 0.004 0.0221 0.00339 3.40E-01 0.0065 97.5% Chebyshev 180 of 168 Benzene 0.268 5.02 0.0118 1.9E-03 0.859 99% Chebyshev 4.4 of 168 Benzelejpyrene 0.347 4.88 0.0099 4.4E-02 1.008 99% Chebyshev 113 of 168 Benzelejpyrene 0.466 5.97 0.0406 3.2E-03 1.256 99% Chebyshev 102 of 168 Benzelejpyrene 0.466 5.97 0.0408 3.2E-03 1.256 99% Chebyshev 102 of 168 Benzelejpyrene 0.466 4.6 0.014 0.868 97.5% Chebyshev 102 of 168 Benzelejpyrene 0.465 4.6 0.014 0.868 97.5% Chebyshev 45 of 168 Benzelejpyrene 0.465 4.6 0.014 0.868 97.5% Chebyshev 45 of 168 Benzelejpyrene 0.465 4.6 0.014 0.868 97.5% Chebyshev 45 of 168 Benzelejpyrene 0.465 4.6 0.014 0.868 97.5% Chebyshev 45 of 168 Benzelejpyrene 0.465 4.6 0.014 0.868 97.5% Chebyshev 45 of 168 Benzelejpyrene 0.045 1.0 0.005 11 0.013 1.30E-04 0.005 97.5% Chebyshev 100 of 168 Boron 4.810 9.005 9.005 9.005 97.5% Chebyshev 100 of 168 Boron 4.810 9.005 9.005 97.5% Chebyshev 100 of 168 Boron 4.810 9.005 97.5% Chebyshev 180 of 168 Boron 4.810 9.005 97.5% Chebyshev 180 of 168 Boron 4.810 9.005 97.5% Chebyshev 180 of 168 Boron 4.810 9.005 97.5% Boron 4.810 97.5% Chebyshev 180 of 168 Bor								
Arsenic 3.331 24.3 0.23 4.916 97.5% Chebyshev 139 of 168 Barrum 237.4 2180 18.6 330.4 95% Chebyshev 168 of 168 Benzene 0.004 0.0221 0.000339 8.40E+01 0.0065 97.5% Chebyshev 72 of 83 Benzo(a)phirthcene 0.288 5.02 0.0118 1.9E+03 0.859 99% Chebyshev 72 of 83 Benzo(a)phirthcene 0.347 4.88 0.00999 4.4E+02 1.008 99% Chebyshev 113 of 168 Benzo(a)phyrene 0.347 4.88 0.00999 4.4E+02 1.008 99% Chebyshev 113 of 168 Benzo(a)phyrene 0.251 4.24 0.0088 3.2E+03 1.256 99% Chebyshev 113 of 168 Benzo(a)phyrene 0.251 4.24 0.00989 0.545 97.5% Chebyshev 61 of 168 Benzo(a)phyrene 0.251 4.24 0.00989 0.545 97.5% Chebyshev 61 of 168 Benzo(a)phyrene 0.251 4.24 0.00989 0.545 97.5% Chebyshev 61 of 168 Benzo(b)phyrene 0.455 4.6 0.014 0.688 97.5% Chebyshev 165 of 168 Borron 4.811 544 2.43 7.387 97.5% Chebyshev 165 of 168 Borron 4.811 544 2.43 7.387 97.5% Chebyshev 165 of 168 Borron 4.811 544 2.43 7.387 97.5% Chebyshev 10 of 166 Carbazole 0.0203 0.617 0.0129 1.30E+04 0.0392 97.5% Chebyshev 10 of 166 Carbazole 0.0203 0.617 0.0129 1.30E+04 0.0392 97.5% Chebyshev 10 of 166 Carbazole 0.0459 1.54 0.0104 0.055 97.5% Chebyshev 42 of 166 Carbazole 0.0459 1.54 0.0104 0.0118 97.5% Chebyshev 42 of 166 Carbazole 0.0459 1.54 0.0104 0.0118 97.5% Chebyshev 13 of 63 Carbazole 0.0459 1.54 0.0104 0.0118 97.5% Chebyshev 13 of 63 Carbazole 0.0459 1.54 0.0104 0.0118 97.5% Chebyshev 13 of 63 Carbazole 0.0459 1.54 0.0104 0.0118 97.5% Chebyshev 13 of 63 Carbazole 0.0459 1.54 0.0104 0.0118 97.5% Chebyshev 13 of 63 Carbazole 0.027 4.87 0.00907 0.0004 97.5% Chebyshev 13 of 63 Carbazole 0.027 4.87 0.00907 0.0004 97.5% Chebyshev 10 of 166 Carbazole 0.0018 0.0004 97.5% Chebyshev 10 of 166 Carbazole 0.0018 0.0004 97.5% Chebyshev 10 of 166 Carbazole 0.0004 97								
Bartum								
Benzener 0.004								
Benzo(al)prizene								
Benzo(plyrene 0.347 4.88 0.00989 4.4E+02 1.008 99% Chebyshev 113 of 168								
Benze(J, N)perylene	Benzo(a)pyrene	0.347	4.88	0.00999	4.4E+02	1.008	99% Chebyshev	
Benzo(N) Uoranthene								
Beryllium								
Boron								
Butyl Berzyl Pithelate								
Cadmistro					1.30E+04			
Carbon Disulfide	Cadmium							
Chromium								
Chrysene					5.5E+03			
Cobalt 4.144 16 0.049 — 4.07 95% Students-1 165 of 166 Copper 24.26 487 0.13 — 48.92 97.5% Chebyshev 164 of 168 Cyclohexane 0.266 21.7 0.000626 4.7E+04 1.898 97.5% Chebyshev 56 of 166 Dibenz(Jan)anthracene 0.113 1.84 0.0619 1.0E+03 0.236 97.5% Chebyshev 56 of 166 DileIdrin 0.0039 0.821 0.0167 — 0.0709 97.5% Chebyshev 23 of 166 Dile-butyl Phthalate 0.0391 0.753 0.0311 1.5E+01 0.0021 97.5% Chebyshev 11 of 168 Endosulfan Sulfate 0.0013 0.0713 0.0713 — 0.0042 97.5% Chebyshev 21 of 166 Endrin Aldehyde 0.0013 0.020 0.000497 — 0.0025 97.5% Chebyshev 25 of 166 EhrlyBenzene 0.0038 0.105 0.000497 — 0.0029 97.5% Chebyshev 36 r166 E					2.05.05			
Copper					3.05+05			
Cyclohexane 0,266 21.7 0,000268 4.7E+04 1,898 97.5% Chebyshev 47 of 83 Dibenza(h)anthracene 0.113 1.64 0.0619 1.0E+03 0.236 97.5% Chebyshev 56 of 166 Dibenza(hran 0.0309 0.821 0.0167 — 0.0709 97.5% Chebyshev 23 of 166 Dieldrin 0.0009075 0.0205 0.00024 1.6E+01 0.0021 97.5% Chebyshev 33 of 166 Di-butyl Phthalate 0.0039 0.753 0.0311 1.5E+01 0.00657 95% Chebyshev 21 of 166 Endrin Aldehyde 0.0019 0.0738 0.00497 — 0.0055 97.5% Chebyshev 21 of 166 Endrin Aldehyde 0.0013 0.02 0.004497 — 0.0055 97.5% Chebyshev 25 of 166 Endrin Ketone 0.0013 0.02 0.000489 9.7E+02 0.0029 97.5% Chebyshev 25 of 166 Elhylbenzene 0.0544 1.42 0.0133 — 1.886 99% Chebyshev 47 of 83								
Diberzofuran								
Dieldrifn 0.00060075 0.0205 0.000243 1.6E+01 0.0021 97.5% Chebyshev 33 of 168					1.0E+03		97.5% Chebyshev	
Di-h-butyl Phthalate								
Endosulfan Sulfate								
Endrin Aldehyde								
Endrin Ketone 0.0013 0.02 0.000469 9.7E+02 0.0029 97.5% Chebyshev 25 of 166 Ethylbenzene 0.0038 0.105 0.000654 7.9E+03 0.0127 97.5% Chebyshev 47 of 83 Fluoranthene 0.594 14.2 0.0133 1.886 99% Chebyshev 96 of 166 Fluorene 0.0442 1.11 0.00945 0.107 97.5% Chebyshev 41 of 166 gamma-Chlordane 0.0068043 0.0156 0.00071 5.0E+02 0.0017 97.5% Chebyshev 12 of 166 Indeno(1,2,3-cd)pyrene 0.368 6.49 0.0574 1.3E+04 0.761 97.5% Chebyshev 12 of 166 Iron 14277 77100 2410 17453 95% Chebyshev 166 of 166 Isopropylbenzene (cumene) 0.831 64.9 0.000318 4.8E+03 8.618 99% Chebyshev 166 of 166 Ilbium 10.03 28.6 0.65 12.17 95% Chebyshev 166 of 166 <								
Fluoranthene					9.7E+02			
Fluorene	Ethylbenzene	0.0038	0.105	0.000654		0.0127		
gamma-Chlordane 0.00069043 0.0156 0.00071 5.0E+02 0.0017 97.5% Chebyshev 12 of 166 Indeno(1,2,3-cd)pyrene 0.388 6.49 0.0574 1.3E+04 0.761 97.5% Chebyshev 104 of 166 Iron 14277 77100 2410 17453 95% Chebyshev 166 of 166 Isopropylbenzene (cumene) 0.831 64.9 0.000318 4.8E+03 8.618 99% Chebyshev 16 of 68 Lead 53.52 702 2.48 104 97.5% Chebyshev 166 of 166 Lithlum 10.03 28.6 0.65 12.17 95% Chebyshev 168 of 166 Lithlum 10.03 28.6 0.65 12.17 95% Chebyshev 168 of 166 Lithlum 10.03 28.6 0.65 12.17 95% Chebyshev 153 of 83 Manganese 261.2 892 59.3 277.5 95% Student's-t 168 of 166 Methyloyclohexane								
Indeno(1,2,3-cd)pyrene								
Itron								
Sopropylbenzene (cumene)								
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Xylene (total) 0.0479 3.4 0.000777 0.304 97.5% Chebyshev 53 of 83								· · · · · · · · · · · · · · · · · · ·
450.0 7000 0.17 4.0ETUS 015.2 31.3% Chebyshev 166 01 166								
	LIIIO	400.0	7000	0.17	4.02703	010.2	ar.o /o Chebyshev	100 01 100

Notes:

* Soil was collected from 0 to 4 ft, below ground surface.

* Chemicals of interest are any chemical measured in at least one sample at a frequency of detection greater than five percent.

* Chemicals of interest are any chemical measured in at least one sample at a frequency of detection greater than five percent. (1) - Alr Soil_{Inh-V} PCL = TCEQ protective concentration Level for 30 acre source area Residential soil-to-air pathway (inhalation of volatiles and particulates).

^{(2) -} Recommended exposure point concentration to be used based on data distribution per Pro UCL (see Appendix A). When the compound was not detected in a given sample, one-half of the sample detection limit was used as the proxy concentration for that sample.

TABLE 25 JOHNSON AND ETTINGER VAPOR INTRUSTION MODEL OUTPUT FOR SOUTH AREA GROUNDWATER

		Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)		incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
Potential Chemical of				(1)		
Concern*	Average			RME EPC (1)		
1,1,1-Trichloroethane	1.85E-04	NA	3.55E-06	1.40E-03	NA	2.68E-05
1,1-Dichloroethane	2.10E-03	NA	6.23E-05	1.50E-02	NA	4.45E-04
2-Butanone	4.30E-04	NA	1.38E-07	3.00E-03	NA	9.59E-07
2-Methylnaphthalene	7.76E-04	NA	2.73E-05	8.80E-03	NA	3.09E-04
4,4'-DDE	3.34E-06	5.18E-11	NA	1.00E-05	1.55E-10	NA
Acetophenone	3.72E-03	NA	5.91E-06	4.60E-02	NA	7.31E-05
Benzene	4.25E-04	2.38E-08	2.38E-04	4.20E-03	2.36E-07	2.35E-03
Benzo(b)fluoranthene	3.26E-04	2.95E-08	NA	2.80E-03	1.36E-07	NA
Carbon Disulfide	6.50E-05	NA	8.94E-06	3.00E-04	NA	4.13E-05
Chrysene	1.93E-04	1.83E-10	NA	6.00E-04	5.69E-10	NA
cis-1,2-Dichloroethene	3.27E-03	NA	1.07E-03	3.00E-02	NA	9.86E-03
Fluorene	1.84E-04	NA	1.56E-06	1.00E-03	NA	8.48E-06
gamma-BHC (Lindane)	7.66E-06	3.61E-10	2.16E-06	4.20E-05	1.98E-09	1.18E-05
Isopropylbenzene (Cumene)	1.78E-04	NA	1.34E-05	1.60E-03	NA	1.21E-04
Vinyl Chloride	1.85E-04	6.15E-08	1.63E-04	1.90E-03	6.31E-07	1.67E-03

^{*} Only volatile compounds were assesses for this pathway.

⁽¹⁾ RME EPC is the reasonable maximim exposure exposure point concentration.

TABLE 26 JOHNSON AND ETTINGER VAPOR INTRUSTION MODEL OUTPUT FOR NORTH AREA GROUNDWATER

Hazard

quotient

from vapor

Incremental

risk from

vapor

Hazard quotient

from vapor

Incremental

risk from

vapor

		intrusion to	intrusion to		intrusion to	intrusion to
		indoor air,	indoor air,		indoor air,	indoor air,
		•	noncarcinogen		•	•
		carcinogen (unitless)	(unitless)		carcinogen (unitless)	noncarcinogen (unitless)
Potential Chemical of		(unitiess)	(unitiess)		(unitiess)	(unitiess)
	A			RME EPC (1)		
Concern*+	Average					
1,1,1-Trichloroethane	1.48E+01	NA	2.84E-01	1.56E+02	NA	2.99E+00
1,1-Dichloroethane	2.80E+00	NA	8.31E-02	3.15E+01	NA	9.34E-01
1,1-Dichloroethene	3.46E+00	NA	1.26E+00	2.92E+01	NA	1.06E+01
1,2,3-Trichloropropane	6.17E+00	3.83E-03	3.19E+00	4.43E+01	2.75E-02	2.29E+01
1,2,4-Trimethylbenzene	3.80E-02	NA	8.29E-02	4.20E-02	NA	9.16E-02
1,2-Dichloroethane	2.42E+01	1.39E-03	NA	3.28E+02	1.89E-02	NA
1,2-Dichloropropane	4.90E-01	3.46E-05	1.04E+00	3.45E+00	2.43E-04	7.32E+00
2-Methylnaphthalene	2.70E-03	NA	9.49E-05	1.60E-02	NA	5.62E-04
4,4'-DDE	2.14E-05	3.32E-10	NA .	2.70E-04	4.19E-09	NA
Acenaphthene	9.00E-04	NA	6.96E-06	8.60E-03	NA	6.65E-05
Acetone	2.81E-01	NA	1.33E-03	1.15E-01	NA	5.45E-04
Acetophenone	6.80E-03	NA	1.08E-05	7.40E-02	NA	1.18E-04
alpha-BHC	1.96E-05	3.66E-09	NA	2.00E-04	3.74E-08	NA
Benzene	1.02E+00	5.72E-05	5.70E-01	8.24E+00	4.62E-04	4.61E+00
Benzo(b)fluoranthene	3.23E-04	2.92E-08	NA	1.40E-03	1.27E-07	NA
Carbon Tetrachloride	5.60E-01	2.63E-04	NA	7.58E+00	3.56E-03	NA
cis-1,2-Dichloroethene	8.96E+00	NA	2.94E+00	1.24E+02	NA	4.08E+01
Dibenzofuran	6.01E-04	NA	1.51E-05	4.90E-03	NA	1.23E-04
Dieldrin	5.01E-06	2.52E-09	7.30E-06	2.64E-05	1.33E-08	3.85E-05
Ethylbenzene	9.69E-02	NA	1.89E-03	7.40E-01	NA	1.44E-02
Fluorene	8.51E-04	NA	7.22E-06	6.10E-03	NA	5.18E-05
gamma-BHC (Lindane)	1.25E-04	5.89E-09	3.53E-05	1.50E-03	7.06E-08	4.23E-04
m,p-Xylene	6.85E-02	NA	1.34E-02	1.68E-01	NA	3.28E-02
Methylene Chloride	9.57E+01	1.77E-04	2.91E-01	1.23E+03	2.27E-03	3.74E+00
Naphthalene	7.83E-02	NA	6.40E-02	3.22E-01	NA	2.63E-01
o-Xylene	4.62E-02	NA	7.26E-03	4.40E-02	NA	6.92E-03
Pyrene	2.23E-04	NA	7.70E-07	5.00E-04	NA	1.73E-06
Styrene	2.60E-02	NA	1.98E-04	2.50E-03	NA	1.91E-05
Tetrachloroethene	1.95E+00	2.05E-04	1.35E-01	2.05E+01	2.15E-03	1.42E+00
Toluene	3.35E-01	NA	1.61E-02	4.05E+00	NA	1.94E-01
Trichloroethene	1.15E+01	1.43E-02	7.59E+00	8.40E+01	1.05E-01	5.54E+01
Vinyl Chloride	5.02E-01	1.67E-04	4.42E-01	5.09E+00	1.69E-03	4.49E+00

^{*} Only volatile compounds were assesses for this pathway.

⁺ Compounds with a cancer risk greater than 1 x 10⁻⁵ or a hazard index greater than 1 have been bolded.

⁽¹⁾ RME EPC is the reasonable maximim exposure exposure point concentration.

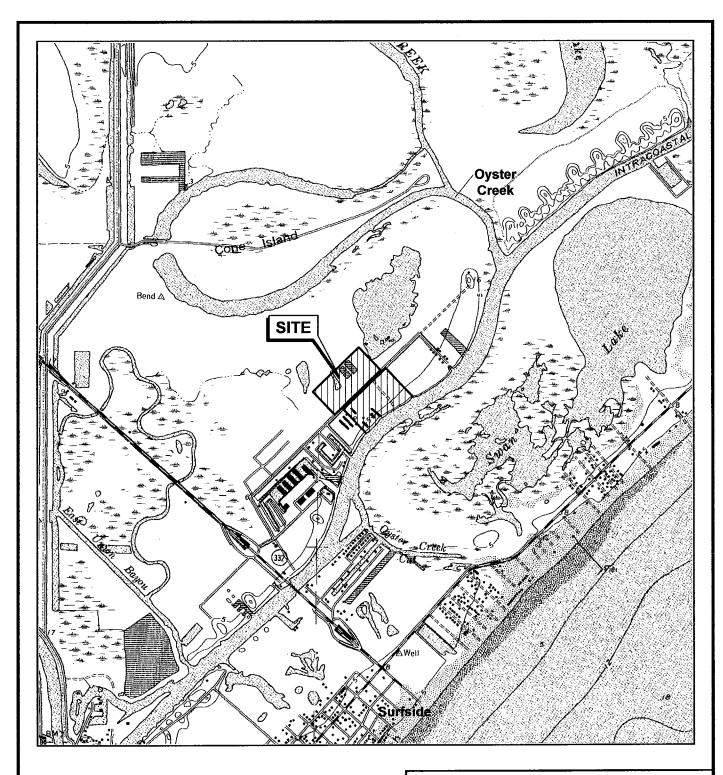
TABLE 27 SUMMARY OF HAZARD INDICES AND CANCER RISK ESTIMATES FOR SOIL EXPOSURE

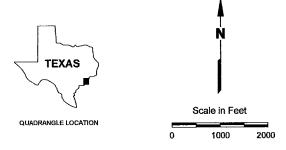
SOUTH AREA

HYPOTHETICAL ON-SITE RECEPTORS	CARCINOGENIC RISK	NONCARCINOGENIC HAZARD INDEX
Average Youth Trespasser	9.85E-08	1.79E-03
RME Youth Trespasser	1.09E-06	1.46E-02
Average Construction Worker	5.22E-08	2.46E-02
RME Construction Worker	8.19E-07	2.77E-01
Average Industrial Worker	9.50E-07	2.01E-02
RME Industrial Worker	6.08E-06	7.04E-02

NORTH AREA

CARCINOGENIC RISK	NONCARCINOGENIC HAZARD INDEX
2.57E-08	6.21E-03
5.71E-07	2.80E-02
1.37E-08	8.72E-02
4.27E-07	5.45E-01
2.54E-07	7.34E-02
3.20E-06	9.28E-02
	2.57E-08 5.71E-07 1.37E-08 4.27E-07





Source: Base map taken from http://www.tnris.state.tx.us Freeport, Texas 7.5 min. U.S.G.S. quadrangle, 1974.

GULFCO MARINE MAINTENANCE FREEPORT, BRAZORIA COUNTY, TEXAS

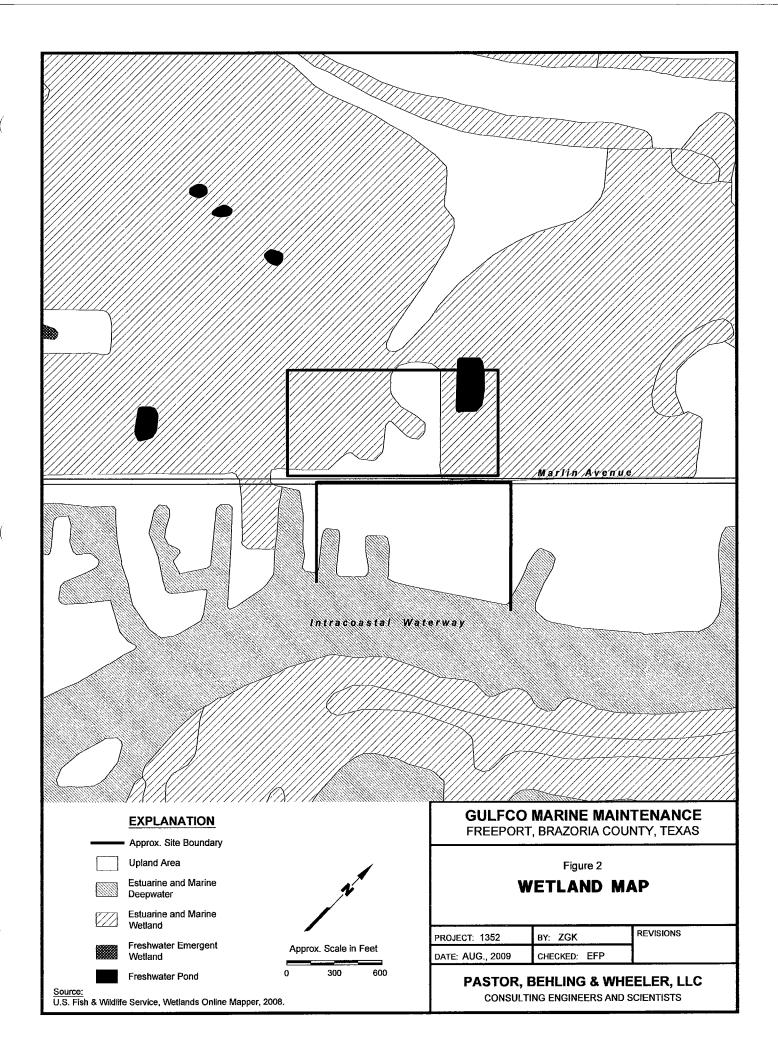
Figure 1

SITE LOCATION MAP

PROJECT: 1352	BY: ZGK	REVISIONS
DATE: AUG., 2009	CHECKED: EFP	

PASTOR, BEHLING & WHEELER, LLC

CONSULTING ENGINEERS AND SCIENTISTS





RELEASE MECHANISM		ENVIROI TRANSPOR	NMENTAL RT AND FATE	EXPOSURE ROUTE	POTENTIAL FUTURE ON-SITE CONSTRUCTION OR INDUSTRIAL WORKER RECEPTOR	POTENTIAL RESIDENTIAL OFF-SITE RECEPTOR	POTENTIAL YOUTH TRESPASSER	POTENTIAL CONTACT RECREATION	
Volatilization to ——— Air dispersion —— the air from PSAs				 Inhalation of ambient air 	✓	✓			
Fugitive dust — Air dispersion —				 Inhalation of ambient air 	✓	✓			
from PSAs 🙀 Deposition ——	On soil			 Ingestion of soil 					
(Wet and dry)				Skin contact with soil					
	On surface water ———	Potable source————		 Ingestion of drinking water 					
				Skin contact with drinking water					
			Root uptake by plants (if used for watering)	 Ingestion of fruits and vegetables 					·
		— Fishable source —	Uptake by fish	 Ingestion of fish 					
		Agriculture use source ———	Root uptake by crops (if used for irrigation)	 Ingestion of fruit and vegetables 					
			Ingestion by animals	 Ingestion of meat and dairy products 	5				
		Surface water used for water conta	act sports —	Skin contact with/Incidental ingestion	n of water				
	2								
Leaching to ———— Groundwater —— groundwater	To potable well			 Ingestion of drinking water 					<u>LEGEND:</u>
groundwater				 Skin contact with drinking water 					-X Pathway is Incomplete
		-	Root uptake by plants (if used for irrigation)	 Ingestion of fruits and vegetables 					Pathway is Complete, Significance evaluated in Baseline Human Health
			Volatilization to air	 Inhalation of vapors (e.g., during sho 	ower)				evaluated in baseline numan nealit Risk Assessment (BHHRA)
	② ── To agricultural well ──	··•	Root uptake by plants (if used for irrigation)	 Ingestion of fruits and vegetables 					NOTES:
			Ingestion by animals	 Ingestion of meat and dairy products 	s				Based on surface soil samples collected on Lots 19
į			Volatilization to air	Inhalation of vapors close to source					and 20, it does not appear that significant entrainment and subsequent deposition of particulates has occurred
			Volatilization to dil						at the Site or at off-site locations.
		3		— Skin contact					② No water supply or agricultural wells are in use in the Site vicinity and groundwater in the uppermost water-bearing units is not usable due to high total
 √ (a) √ () 	To surface water/ sediments	Potable source		 Ingestion of drinking water 					dissolved solids concentrations. The incompleteness of this pathway is contingent on the continued stability of
				Skin contact with drinking water					the groundwater contaminant plume within the uppermost, non-potable water-bearing units at the Site.
			Root uptake by plants (if used for watering)	Ingestion of fruits and vegetables					. (3) Surface water is not a potable or agricultural source due
			Volatilization to air	 Inhalation of vapors (e.g., during sho 	ower)				to high salinity.
		Fishable source -	Uptake by fish	 Ingestion of fish 		✓			Indicates potential receptor for complete migration pathway.
		Agricultural use source ———	Root uptake by crops (if used for irrigation)	 Ingestion of fruits and vegetables 			•		paulinay.
			Ingestion by animals ————————	 Ingestion of meat and dairy products 	s				
		Surface water used for water conta	act sports	Skin contact with and ingestion of water	rater	✓		✓	
			Volatilization to air	 Inhalation of vapors close to source 		1		<u> </u>	
			Sedimentation —	Skin contact with and/or ingestion of		./		./	
	Volatilization through soil	nore space ————————————————————————————————————		Inhalation of ambient/indoor air		v		•	
	- Volatilization through son			- Indiador of ample (Villuou) dif	•				
Surface runoff	To surface water/	Potable source————		 Ingestion of drinking water 					
from PSAs	sediments			Skin contact with drinking water					
			Root uptake by plants (if used for watering)	 Ingestion of fruits and vegetables 					
			Volatilization to air	Inhalation of vapors (e.g., during sho	ower)				GULFCO MARINE MAINTENANCE
		Fighable serves —			oor,	,			FREEPORT, BRAZORIA COUNTY, TEXAS
		Fishable source	Uptake by fish	Ingestion of fish		✓			Figure 4
		Agricultural use source	Root uptake by crops (if used for irrigation)	•					HUMAN HEALTH
			Ingestion by animals	 Ingestion of meat and dairy products 	S				CONCEPTUAL SITE MODEL
		Surface water used for water conta	act sports	 Skin contact with and ingestion of w 	vater	✓		✓ ,	SOUTH AREA
			Volatilization to air ———————————————————————————————————	 Inhalation of vapors close to source 		✓:		✓	PROJECT: 1352 BY: ZGK REVISIONS:
			Sedimentation	 Skin contact with and/or ingestion or 	of sediments	✓		✓	DATE: AUG., 2009 CHECKED: KHT
.Soil —————		<u></u>		Direct skin contact with and ingestice.	on of soil		✓		PASTOR, BEHLING & WHEELER, LLC CONSULTING ENGINEERS AND SCIENTISTS
<u> </u>		· 30							

\$

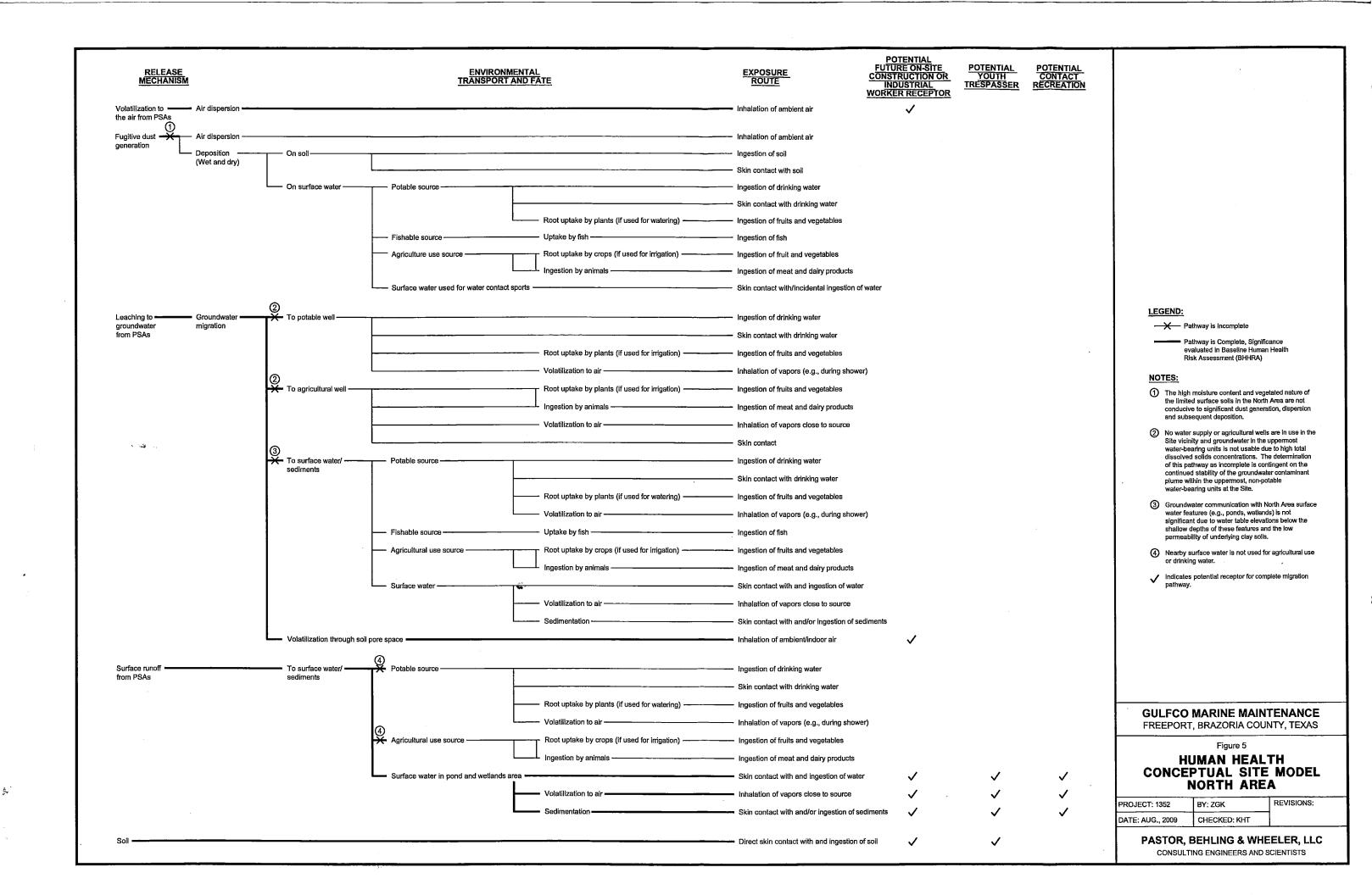


TABLE 1 EXPOSURE POINT CONCENTRATION (mg/kg) SOUTH AREA SURFACE SOIL*

					EPA			
				TCEQ	Ecological			
				Ecological	Screening		Statistic	# of Detects/#
Chemicals of Interest ⁺	Average	Max Detection	Min Detection	Benchmark (1)	Level (2)	95% UCL	Used (3)	of Samples
2-Methylnaphthalene	0.0293	0.501	0.0106			0.0784	97.5% Chebyshev	22 of 83
4,4'-DDD	0.0007894	0.0243	0.00264			0.0029	97.5% Chebyshev	5 of 83
4,4'-DDE	0.0019	0.0693	0.000428			0.0074	97.5% Chebyshev	17 of 83
4,4'-DDT	0.0038	0.0625	0.000281		0.021 (m)	0.014	99% Chebyshev	37 of 83
Acenaphthene	0.0595	1.69	0.0113	20 (p)		0.197	97.5% Chebyshev	26 of 83
Acenaphthylene	0.0382	0.935	0.0184			0.113	97.5% Chebyshev	19 of 83
Aluminum	5335	15200	414			5946	95% Student's-t	83 of 83
Anthracene	0.0961	2.46	0.0112			0.297	97.5% Chebyshev	37 of 83
Antimony	1.118	5.14	0.2	5 (p)	0.27 (m)	1.959	97.5% Chebyshev	72 of 83
Aroclor-1254	0.137	7.98	0.00334			0.726	97.5% Chebyshev	13 of 85
Arsenic	3.735	24.3	0.26	18 (p)	18 (p)	4.535	95% Approx. Gamma	71 of 83
Barium	345.2	2180	18.6	330 (i)	330 (i)	415.1	95% H-UCL	83 of 83
Benzo(a)anthracene	0.345	5.02	0.0286			1.211	99% Chebyshev	30 of 83
Benzo(a)pyrene	0.457	4.57	0.0103			1.457	99% Chebyshev	65 of 83
Benzo(b)fluoranthene	0.582	5.42	0.0408			1.638	95% H-UCL	61 of 83
Benzo(g,h,i)perylene	0.324	4.24	0.00989			1.095	99% Chebyshev	51 of 83
Benzo(k)fluoranthene	0.24	4.25	0.0195			0.651	97.5% Chebyshev	33 of 83
Beryllium	0.408	4.6	0.014	10 (p)	21 (m)	0.487	95% Approx. Gamma	82 of 83
Boron	4.662	54.4	2.43	0.5 (p)		9.663	97.5% Chebyshev	34 of 83
Butyl Benzyl Phthalate	0.0187	0.297	0.0129			0.0373	95% Chebyshev	6 of 83
Cadmium	0.464	9.71	0.023	32 (p)	0.36 (m)	1.71	99% Chebyshev	50 of 83
Carbazole	0.0612	1.54	0.0104			0.193	97.5% Chebyshev	29 of 83
Chromium	16.08	136	3.37	0.4 (i)	26 (a)	17.45	95% H-UCL	83 of 83
Chrysene	0.409	4.87	0.00932			1.322	99% Chebyshev	56 of 83
Cobalt	3.705	16	0.049	13 (p)	13 (p)	4.781	95% Chebyshev	82 of 83
Copper	27.98	216	1.55	61 (i)	28 (a)	32.45	95% H-UCL	83 of 83
Dibenz(a,h)anthracene	0.155	1.64	0.0639			0.363	97.5% Chebyshev	36 of 83
Dibenzofuran	0.0378	0.821	0.0167			0.111	97.5% Chebyshev	17 of 83
Dieldrin	0.000997	0.0205	0.000243		0.0049 (m)	0.003	97.5% Chebyshev	21 of 83
Di-n-butyl Phthalate	0.048	0.753	0.0368	200 (p)		0.0967	95% Chebyshev	9 of 83
Endosulfan Sulfate	0.002	0.0713	0.000456			0.0077	97.5% Chebyshev	17 of 83
Endrin Aldehyde	0.0023	0.0738	0.000497			0.0084	97.5% Chebyshev	22 of 83
Endrin Ketone	0.0016	0.02	0.000469			0.004	97.5% Chebyshev	18 of 83
Fluoranthene	0.799	14.2	0.0133			2.656	95% H-UCL	59 of 83
Fluorene	0.0515	1.11	0.00945	30 (i)		0.155	97.5% Chebyshev	28 of 83
gamma-Chlordane	0.00082679	0.0156	0.00071			0.0025	97.5% Chebyshev	8 of 83
Indeno(1,2,3-cd)pyrene	0.47	6.49	0.0634			1.115	97.5% Chebyshev	63 of 83
Iron	16285	77100	3450			17845	95% H-UCL	83 of 83
Lead	69.61	643	2.82	120 (p)	11 (a)	84.5	95% H-UCL	83 of 83
Lithium	7.856	28	0.65	2 (p)		9.055	95% Approx. Gamma	83 of 83
Manganese	257.4	892	59.3	500 (p)	220 (p)	281.1	95% Student's-t	83 of 83
Mercury	0.0227	0.66	0.0032	0.1 (i)		0.0254	95% H-UCL	37 of 83
Molybdenum	1.306	8.42	0.098	2 (p)		1.645	95% Approx. Gamma	71 of 83
Nickel	11.64	36.7	2.84	30 (p)	38 (p)	12.54	95% Approx. Gamma	83 of 83
Phenanthrene	0.512	12.6	0.0139			2.198	99% Chebyshev	57 of 83
Pyrene	0.533	8.47	0.0121			1.366	95% H-UCL	57 of 83
Strontium	70.61	527	16.5			101.2	95% Chebyshev	83 of 83
Tin	0.611	4.95	0.52	50 (p)		0.991	95% Chebyshev	23 of 83
Titanium	29.8	645	11.5			63	95% Chebyshev	83 of 83
Vanadium	13.76	45.6	5.42	2 (p)	7.8 (a)	14.84	95% Approx. Gamma	83 of 83
Zinc	601.2	4770	12.3	120 (i)	46 (a)	727.7	95% Approx. Gamma	83 of 83
LPAH	0.7866	19.296	0.07485		29 (i)	3.0384		ļ
HPAH	4.314	59.17	0.27111		1.1 (m)	12.874		ļ
Total PAH	5.1006	78.466	0.34596			15.9124		ļ

- Notes:
 * Surface soil was collected from 0 to 0.5 ft. below ground surface.
- † Chemicals of interest are any chemical measured in at least one sample at a frequency of detection greater than five percent.
- (1) From Table 3-4 of TCEQ, 2006.
- (1) From Yawu.epa.gov/ecotox/ecossl.
 (2) From www.epa.gov/ecotox/ecossl.
 (3) Recommended exposure point concentration to be used based on data distribution per Pro UCL (see Appendix A). When the compound was not detected in a given sample, one-half of the sample detection limit was used as the proxy concentration for that sample.
 (a) avian
 (i) soil invertebrate

- (m) mammal
- (p) plant

TABLE 2 EXPOSURE POINT CONCENTRATION (mg/kg) SOUTH AREA SOIL*

		1						
				TOFO	EPA			
				TCEQ	Ecological		a	
				Ecological	Screening		Statistic	# of Detects/#
Chemicals of Interest ⁺	Average	Max Detection	Min Detection	Benchmark (1)	Level (2)	95% UCL	Used (3)	of Samples
1,3,5-Trimethylbenzene	0.099	4.36	0.000267			0.532	97.5% Chebyshev	9 of 83
2-Butanone	0.00412	0.0226	0.000992			0.00925	97.5% Chebyshev	4 of 83
2-Hexanone	0.00406	0.0207	0.00109			0.0164	97.5% Chebyshev	8 of 83
2-Methylnaphthalene	0.0698	7.21	0.0106			0.341	97.5% Chebyshev	32 of 166
4,4'-DDD	0.00766	1.12	0.000369			0.0498	97.5% Chebyshev	21 of 166
4,4'-DDE	0.0017	0.0693	0.000428			0.0054	97.5% Chebyshev	22 of 166
4,4'-DDT	0.0037	0.113	0.000281		0.021 (m)	0.0125	99% Chebyshev	68 of 166
Acenaphthene	0.0419	1.69	0.0113	20 (p)	`	0.115	97.5% Chebyshev	35 of 166
Acenaphthylene	0.042	1.2	0.0172			0.114	97.5% Chebyshev	37 of 166
Acetone	0.0145	0.16	0.031			0.0491	99% Chebyshev	10 of 83
Aluminum	6452	15700	414			6914	95% Student's-t	166 of 166
Anthracene	0.0874	2.46	0.0112			0.21	97.5% Chebyshev	65 of 166
Antimony	1.023	5.51	0.2	5 (p)	0.27 (m)	1.576	97.5% Chebyshev	144 of 166
Aroclor-1254	0.205	11.5	0.00334			0.74	97.5% Chebyshev	25 of 170
Arsenic	3.331	24.3	0.23	18 (p)	18 (p)	4.916	97.5% Chebyshev	139 of 166
Barium	237.4	2180	18.6	330 (i)	330 (i)	330.4	95% Chebyshev	166 of 166
Benzene	0.004	0.0221	0.000339			0.0065	97.5% Chebyshev	72 of 83
Benzo(a)anthracene	0.268	5.02	0.000333			0.859	99% Chebyshev	44 of 166
Benzo(a)pyrene	0.347	4.88	0.00999			1.008	99% Chebyshev	113 of 166
Benzo(b)fluoranthene	0.466	5.97	0.0408			1.256	99% Chebyshev	102 of 166
Benzo(g,h,i)perylene	0.251	4.24	0.00989			0.545	97.5% Chebyshev	81 of 166
Benzo(k)fluoranthene	0.157	4.25	0.00383			0.343	97.5% Chebyshev	45 of 166
Beryllium	0.465	4.6	0.014	10 (p)	21 (m)	0.668	97.5% Chebyshev	165 of 166
Boron	4.811	54.4	2.43	0.5 (p)		7.387	97.5% Chebyshev	72 of 166
Butyl Benzyl Phthalate	0.0203	0.617	0.0129	0.5 (p)		0.0392	95% Chebyshev	10 of 166
Cadmium	0.335	9.71	0.023	32 (p)	0.36 (m)	0.0392	97.5% Chebyshev	93 of 166
Carbazole	0.0459	1.54	0.023	32 (β) 	0.36 (111)	0.731	97.5% Chebyshev	42 of 166
Carbon Disulfide	0.0439	0.028	0.000987			0.004	97.5% Chebyshev	13 of 83
Chromium	13.53	136	2.03	0.4 (i)	26 (a)	17.75		_
Chrysene	0.327	4.87	0.00901	0.4 (I)	26 (a)	0.938	95% Chebyshev 99% Chebyshev	166 of 166 93 of 166
						4.407		
Cobalt	4.144	16	0.049	13 (p)	13 (p)		95% Student's-t	165 of 166
Copper	24.26	487	0.13	61 (i)	28 (a)	46.92	97.5% Chebyshev	164 of 166
Cyclohexane	0.266	21.7	0.000626			1.898	97.5% Chebyshev	47 of 83
Dibenz(a,h)anthracene	0.113	1.64	0.0619			0.236	97.5% Chebyshev	56 of 166
Dibenzofuran	0.0309	0.821	0.0167		0.0049 (m)	0.0709	97.5% Chebyshev	23 of 166
Dieldrin	0.00090075	0.0205	0.000243		0.0049 (m)	0.0021	97.5% Chebyshev	33 of 166
Di-n-butyl Phthalate	0.0391	0.753	0.0311	200 (p)		0.0657	95% Chebyshev	11 of 166
Endosulfan Sulfate	0.0013	0.0713	0.0713			0.0042	97.5% Chebyshev	21 of 166
Endrin Aldehyde	0.0019	0.0738	0.000497			0.0055	97.5% Chebyshev	31 of 166
Endrin Ketone	0.0013	0.02	0.000469			0.0029	97.5% Chebyshev	25 of 166
Ethylbenzene	0.0038	0.105	0.000654			0.0127	97.5% Chebyshev	47 of 83
Fluoranthene	0.594	14.2	0.0133			1.886	99% Chebyshev	96 of 166
Fluorene	0.0442	1.11	0.00945	30 (i)		0.107	97.5% Chebyshev	41 of 166
gamma-Chlordane	0.00069043	0.0156	0.00071			0.0017	97.5% Chebyshev	12 of 166
Indeno(1,2,3-cd)pyrene	0.368	6.49	0.0574			0.761	97.5% Chebyshev	104 of 166
Iron	14277	77100	2410			17453	95% Chebyshev	166 of 166
Isopropylbenzene (cumene)	0.831	64.9	0.000318			8.618	99% Chebyshev	16 of 83
Lead	53.52	702	2.48	120 (p)	11 (a)	104	97.5% Chebyshev	166 of 166
Lithium	10.03	28.6	0.65	2 (p)		12.17	95% Chebyshev	166 of 166
m,p-Xylene	0.0347	2.56	0.000558			0.227	97.5% Chebyshev	53 of 83
Manganese	261.2	892	59.3	500 (p)	220 (p)	277.5	95% Student's-t	166 of 166
Mercury	0.0262	0.85	0.0026	0.1 (i)		0.0718	97.5% Chebyshev	73 of 166
Methylcyclohexane	0.0369	2.73	0.000223			0.242	97.5% Chebyshev	57 of 83
Molybdenum	0.89	10.4	0.088	2 (p)		1.61	97.5% Chebyshev	118 of 166
Naphthalene	0.323	19.2	0.00482			2.775	99% Chebyshev	8 of 83
Nickel	11.74	36.7	2.7	30 (p)	38 (p)	12.37	95% Student's-t	166 of 166
n-Propylbenzene	0.0237	1.8	0.00023			0.159	97.5% Chebyshev	14 of 83
o-Xylene	0.0132	0.84	0.000223			0.077	97.5% Chebyshev	32 of 83
Phenanthrene	0.401	12.6	0.0136			1.349	99% Chebyshev	95 of 166
Pyrene	0.432	8.47	0.0121			1.29	99% Chebyshev	98 of 166
Strontium	75.61	591	16.5			100.6	95% Chebyshev	166 of 166
Tin	0.616	6.48	0.52	50 (p)		0.91	95% Chebyshev	40 of 166
Titanium	25.77	645	4.02			32.21	95% Student's-t	166 of 166
Toluene	0.00574	0.0192	0.000721			0.0137	97.5% Chebyshev	69 of 83
Vanadium	14.4	45.6	4.73	2 (p)	7.8 (a)	15.17	95% Approx. Gamma	166 of 166
Xylene (total)	0.0479	3.4	0.000777			0.304	97.5% Chebyshev	53 of 83
Zinc	433.8	7650	6.17	120 (i)	46 (a)	815.2	97.5% Chebyshev	166 of 166
LPAH	1.0093	45.47	0.07817		29 (i)	5.011	,	
	3.323	60.03	0.24199		1.1 (m)	9.157		
HPAH								
HPAH Total PAH	4.3323	105.5	0.32016			14.168		

- Notes:

 * Soil was collected from 0 to 4 ft. below ground surface.

 * Chemicals of interest are any chemical measured in at least one sample at a frequency of detection greater than five percent.

 (1) From Table 3-4 of TCEQ, 2006.

 (2) From www.epa.gov/ecotox/ecossl.

 (3) Recommended exposure point concentration to be used based on data distribution per Pro UCL (see Appendix A). When the compound was not detected in a given sample, one-half of the sample detection limit was used as the proxy concentration for that sample.

 (a) avian

 (i) soil invertebrate

 (m) mammal

 (p) plant

TABLE 3 EXPOSURE POINT CONCENTRATION (mg/kg) NORTH AREA SURFACE SOIL*

Chemicals of Interest⁺	Average	Max Detection	Min Detection	TCEQ Ecological Benchmark ⁽¹⁾	EPA Ecological Screening Level	95% UCL	Statistic Used ⁽³⁾	# of Detects/#
2-Methylnaphthalene	0.0123	0.053	0.01			0.0275	95% Chebyshev	3 of 18
4,4'-DDE	0.0011	0.0149	0.00216			0.0093	99% Chebyshev	2 of 18
4,4'-DDT	0.0012	0.0108	0.000597		0.021 (m)	0.0073	99% Chebyshev	7 of 18
Acenaphthene	0.0161	0.157	0.021	20 (p)		0.0528	95% Chebyshev	2 of 18
Acenaphthylene	0.0099	0.0555	0.0555			0.0234	95% Chebyshev	1 of 18
Aluminum	10673	16800	1810			12185	95% Student's-t	18 of 18
Anthracene	0.0257	0.264	0.00887			0.168	99% Chebyshev	4 of 18
Antimony	1.744	8.09	1.66	5 (p)	0.27 (m)	6.777	99% Chebyshev	9 of 18
Aroclor-1254	0.0037	0.0122	0.0122			0.0077	95% Chebyshev	1 of 18
Arsenic	2.522	5.69	0.54	18 (p)	18 (p)	2.999	95% Student's-t	17 of 18
Barium	145.2	476	46.1	330 (i)	330 (i)	264.2	95% Chebyshev	18 of 18
Benzo(a)anthracene	0.0715	1.18	1.18	`		0.72	99% Chebyshev	1 of 18
Benzo(a)pyrene	0.114	1.42	0.0135			0.888	99% Chebyshev	7 of 18
Benzo(b)fluoranthene	0.146	1.62	0.0487			0.352	95% Adjusted Gamma	8 of 18
Benzo(g,h,i)perylene	0.132	1.28	0.0237			0.842	99% Chebyshev	10 of 18
Benzo(k)fluoranthene	0.0689	0.799	0.011			0.505	99% Chebyshev	4 of 18
Beryllium	0.708	2.88	0.066	10 (p)	21 (m)	2.125	99% Chebyshev	17 of 18
Bis(2-ethylhexyl)phthalate	0.0462	0.239	0.0122			0.0978	95% Chebyshev	6 of 18
Boron	8.028	39.2	3.15	0.5 (p)		13.49	95% Approx. Gamma	13 of 18
Butyl Benzyl Phthalate	0.016	0.151	0.151			0.0514	95% Chebyshev	1 of 18
Cadmium	0.207	0.8	0.28	32 (p)	0.36 (m)	0.799	99% Chebyshev	8 of 18
Carbazole	0.0153	0.128	0.013		`	0.045	95% Chebyshev	4 of 18
Chromium	20.26	128	7.9	0.4 (i)	26 (a)	48.59	95% Student's-t	18 of 18
Chrysene	0.102	1.3	0.011			0.812	99% Chebyshev	7 of 18
Cobalt	5.789	7.87	2.81	13 (p)	13 (p)	6.406	95% Student's-t	18 of 18
Copper	24.13	200	5.9	61 (i)	28 (a)	70.01	95% Chebyshev	18 of 18
Dibenz(a,h)anthracene	0.0471	0.404	0.045			0.284	99% Chebyshev	4 of 18
Dibenzofuran	0.0129	0.0862	0.0862			0.0336	95% Chebyshev	1 of 18
Dieldrin	0.0004866	0.00545	0.00545		0.0049 (m)	0.0034	99% Chebyshev	1 of 18
Diethyl Phthalate	0.0113	0.011	0.011	100 (p)		0.0215	95% Chebyshev	1 of 18
Di-n-butyl Phthalate	0.0179	0.01	0.01	200 (p)		0.0357	95% Chebyshev	1 of 18
Di-n-octyl Phthalate	0.0144	0.123	0.0154			0.0428	95% Chebyshev	2 of 18
Endrin	0.000304	0.00149	0.00149			0.000759	95% Chebyshev	1 of 18
Endrin Ketone	0.000874	0.00966	0.00966			0.0031	95% Chebyshev	1 of 18
Fluoranthene	0.159	2.19	0.0214			1.358	99% Chebyshev	6 of 18
Fluorene	0.0163	0.141	0.017	30 (i)		0.0496	95% Chebyshev	3 of 18
Indeno(1,2,3-cd)pyrene	0.151	1.51	0.02			0.969	99% Chebyshev	9 of 18
Iron	19477	102000	8450			41127	95% Chebyshev	18 of 18
Lead	57.7	471	8.22	120 (p)	11 (a)	318.3	99% Chebyshev	18 of 18
Lithium	16.57	26.6	2.59	2 (p)		18.68	95% Student's-t	18 of 18
Manganese	369.5	1210	82.3	500 (p)	220 (p)	473.3	95% Approx. Gamma	18 of 18
Mercury	0.0126	0.064	0.006	0.1 (i)		0.0218	95% Approx. Gamma	8 of 18
Molybdenum	0.949	10.7	0.085	2 (p)		6.812	99% Chebyshev	11 of 18
Nickel	17.04	51.7	11.7	30 (p)	38 (p)	20.76	95% Student's-t	18 of 18
Phenanthrene	0.109	1.34	0.018			0.845	99% Chebyshev	7 of 18
Pyrene	0.147	1.87	0.0149			1.169	99% Chebyshev	8 of 18
Silver	0.0543	0.41	0.092	2 (p)		0.148	95% Chebyshev	2 of 18
Strontium	57.32	93.6	26.6			65.4	95% Student's-t	18 of 18
Thallium	0.109	0.63	0.63	1 (p)		0.273	95% Chebyshev	1 of 18
Tin	0.625	3.67	0.68	50 (p)		1.494	95% Chebyshev	4 of 18
Titanium	20.67	55.9	3.41		70(1)	26.26	95% Approx. Gamma	18 of 18
Vanadium	19.66	45.8	7.85	2 (p)	7.8 (a)	23.4	95% Student's-t	18 of 18
Zinc	418.4	5640	29.5	120 (i)	46 (a)	3485	99% Chebyshev	18 of 18
LPAH	0.1893	2.0105	0.13037		29 (i)	1.1663		
HPAH	1.1385 1.3278	13.573 15.5835	1.3892 1.51957		1.1 (m)	7.899 9.0653		
Total PAH								

- Notes:
 * Surface soil was collected from 0 to 0.5 ft. below ground surface.
- † Chemicals of interest are any chemical measured in at least one sample at a frequency of detection greater than five percent.
- (1) From Table 3-4 of TCEQ, 2006.
- (2) From www.epa.gov/ecotox/ecossl.
- (3) Recommended exposure point concentration to be used based on data distribution per Pro UCL (see Appendix A). When the compound was not detected in a given sample, one-half of the sample detection limit was used as the proxy concentration for that sample.
- (a) avian
 (i) soil invertebrate
- (m) mammal (p) plant

TABLE 4 EXPOSURE POINT CONCENTRATION (mg/kg) NORTH AREA SOIL+

					EDA Faalasiaal			
		Max	Min	TCEQ Ecological	EPA Ecological Screening		Statistic	# of Detects/#
Chemicals of Interest**	Average	Detection	Detection	Benchmark (1)	Level (2)	95% UCL	Used (3)	of Samples
1,1-Dichloroethane	0.0286	0.518	0.00161			0.299	99% Chebyshev	3 of 19
1,1-Dichloroethene	0.0179	0.313	0.00178			0.181	99% Chebyshev	2 of 19
1,2-Dichloroethane	0.0106	0.177	0.00231			0.103	99% Chebyshev	4 of 19
2-Butanone	0.0029	0.208	0.0017			0.121	99% Chebyshev	11 of 19
2-Methylnaphthalene 4,4'-DDE	0.0103	0.053 0.0149	0.01			0.0198	95% Chebyshev	4 of 36
	0.0007	0.0149	0.00216 0.000597			0.0024 0.0038	95% Chebyshev	2 of 36 7 of 36
4,4'-DDT Acenaphthene	0.000704	0.0108	0.000597	20 (p)	0.021 (m)	0.0036	99% Chebyshev 95% Chebyshev	4 of 36
Aluminum	11971	18300	1810	20 (p) 		13092	95% Student's-t	36 of 36
Anthracene	0.0215	0.264	0.00887			0.107	99% Chebyshev	6 of 36
Antimony	1.416	8.09	1.66	5 (p)	0.27 (m)	4.366	99% Chebyshev	16 of 36
Aroclor-1254	0.0056	0.0938	0.0122		`	0.0168	95% Chebyshev	2 of 36
Arsenic	2.573	5.69	0.54	18 (p)	18 (p)	2.959	95% Student's-t	32 of 36
Barium	142.1	362	46.1	330 (i)	330 (i)	211.7	95% Student's-t	36 of 36
Benzene	0.0027	0.00632	0.00138			0.0034	95% Student's-t	12 of 19
Benzo(a)anthracene	0.068	1.18	0.0383			0.464	99% Chebyshev	4 of 36
Benzo(a)pyrene	0.0922	1.42	0.0135			0.554	99% Chebyshev	10 of 36
Benzo(b)fluoranthene	0.12	1.62	0.0487			0.649	99% Chebyshev	11 of 36
Benzo(g,h,i)perylene	0.0961	1.28	0.0237			0.494	99% Chebyshev	14 of 36
Benzo(k)fluoranthene	0.0601	0.799	0.068			0.341	99% Chebyshev	6 of 36
Beryllium	0.752	2.88	0.066	10 (p)	21 (m)	1.087	95% Chebyshev	35 of 36
Bis(2-ethylhexyl)phthalate	0.0428	0.239	0.0122			0.0753	95% Chebyshev	11 of 36
Boron	7.576	39.2	3.14	0.5 (p)		20.55	99% Chebyshev	26 of 36
Bromoform	0.0023	0.018	0.011			0.013	99% Chebyshev	2 of 19
Butyl Benzyl Phthalate Cadmium	0.0125 0.193	0.151 0.8	0.054 0.28	32 (p)	0.36 (m)	0.031 0.59	95% Chebyshev 99% Chebyshev	2 of 36 15 of 36
Cadmium	0.193	0.128	0.28	32 (p)	0.36 (11)	0.0323	95% Chebyshev	7 of 36
Carbazole Carbon Disulfide	0.0028	0.0284	0.0108			0.0323	99% Chebyshev	3 of 19
Chromium	17.17	128	7.76	0.4 (i)	26 (a)	22.69	95% Student's-t	36 of 36
Chrysene	0.0885	1.3	0.0104			0.529	99% Chebyshev	11 of 36
cis-1,2-Dichloroethene	0.0541	0.999	0.0195			0.577	99% Chebyshev	2 of 19
Cobalt	6.318	10.3	2.81	13 (p)	13 (p)	6.808	95% Student's-t	36 of 36
Copper	18.7	200	4.59	61 (i)	28 (a)	41.87	95% Student's-t	36 of 36
Cyclohexane	0.0056	0.00185	0.000981			0.00185	Maximum*	5 of 19
Dibenz(a,h)anthracene	0.0384	0.404	0.045			0.177	99% Chebyshev	7 of 36
Dibenzofuran	0.0099	0.0862	0.015			0.0205	95% Chebyshev	2 of 36
Diethyl Phthalate	0.0097	0.011	0.00992	100 (p)		0.0118	95% Student's-t	2 of 36
Di-n-butyl Phthalate	0.0155	0.015	0.01	200 (p)		0.0248	95% Chebyshev	2 of 36
Di-n-octyl Phthalate	0.0115	0.123	0.0154			0.0264	95% Chebyshev	3 of 36
Ethylbenzene	0.0016	0.00502	0.00114			0.00502	Maximum*	5 of 19
Fluoranthene	0.146 0.0112	2.19 0.141	0.0214	30 (i)		0.923 0.0282	99% Chebyshev	9 of 36
Fluorene			0.017	30 (I) 			95% Chebyshev	4 of 36
Indeno(1,2,3-cd)pyrene Iron	0.133 17531	1.51 102000	0.02 7120			0.577 21765	99% Chebyshev 95% Student's-t	13 of 36 36 of 36
Lead	37.8	471	5.88	120 (p)	11 (a)	96.63	95% Chebyshev	36 of 36
Lithium	18.84	32.2	2.59	2 (p)		20.51	95% Student's-t	36 of 36
m,p-Xylene	0.002	0.00139	0.00132			0.00139	Maximum*	2 of 19
Manganese	347	1210	82.3	500 (p)	220 (p)	405.2	95% Approx. Gamma	36 of 36
Mercury	0.0094	0.064	0.0034	0.1 (i)		0.03	99% Chebyshev	13 of 36
Methylcyclohexane	0.0024	0.00278	0.0015			0.00278	Maximum*	6 of 19
Molybdenum	0.586	10.7	0.085	2 (p)		3.551	99% Chebyshev	21 of 36
Naphthalene	0.0236	0.148	0.0013			0.102	99% Chebyshev	6 of 19
Nickel	17.17	51.7	9.74	30 (p)	38 (p)	18.79	95% Student's-t	36 of 36
Phenanthrene	0.0998	1.34	0.018			0.595	99% Chebyshev	10 of 36
Pyrene	0.143	1.97	0.0149			0.879	99% Chebyshev	11 of 36
Silver	0.0473	0.41	0.092	2 (p)		0.103	95% Student's-t	3 of 36
Strontium	56.15	96.2	22.1			62.05	95% Student's-t	36 of 36
Tetrachloroethene	0.0127	0.223	0.00135	 FO (n)		0.129	99% Chebyshev	3 of 19
Tin Titonium	0.47	3.67	0.68	50 (p)		0.926	95% Chebyshev	5 of 36
Titanium	20.83	57	3.41			24.83	95% Student's-t	36 of 36
Toluene Vanadium	0.0046 20.54	0.0122 45.8	0.00134 7.85	200 (p)	7.8 (a)	0.0122 22.9	Maximum* 95% Student's-t	8 of 19 36 of 36
Xylene (total)	0.119	1.76	0.00139	2 (p)	7.0 (a)	0.372	95% Adjusted Gamma	8 of 19
Zinc	242.5	5640	21.1	120 (i)	46 (a)	1784	99% Chebyshev	36 of 36
LPAH	0.1806	2.103	0.07617	120 (1)	29 (i)	0.888	5070 Onebyshev	30 31 30
HPAH	0.9853	13.673	0.3039		1.1 (m)	5.587		
Total PAH	1.1659	15.776	0.38007			6.475		
		-						

- Notes:
 * Recommended UCL exceeds maximum observation, so the maximum measured concentration was used as the EPC.
 + Soil was collected from 0 to 4 ft. below ground surface.

 ** Chemicals of interest are any chemical measured in at least one sample at a frequency of detection greater than five percent.

- ** Chemicals of interest are any chemical measured in at least one sample at a frequency of detection greater than five percent.

 (1) From Table 3-4 of TCEQ, 2006.

 (2) From www.epa.gov/ecotox/ecossl.

 (3) Recommended exposure point concentration to be used based on data distribution per Pro UCL (see Appendix A). When the compound was not detected in a given sample, one-half of the sample detection limit was used as the proxy concentration for that sample.

 (a) avian

 (i) soil invertebrate

 (m) mammal

- (p) plant

TABLE 5 EXPOSURE POINT CONCENTRATION (mg/kg) **BACKGROUND SOIL+**

Chemicals of Interest**	Average	Max Detection	Min Detection	TCEQ Ecological Benchmark ⁽¹⁾	EPA Ecological Screening Level ⁽²⁾	95% UCL	Statistic Used ⁽³⁾	# of Detects/# of Samples
Antimony	0.953	2.19	0.25	5 (p)	0.27 (m)	2.19	Maximum*	5 of 10
Arsenic	3.438	5.9	0.24	18 (p)	18 (p)	4.477	95% Student's-t	10 of 10
Barium	333.1	1130	150	330 (i)	330 (i)	502.3	95% Approx. Gamma	10 of 10
Benzo(a)anthracene	0.0116	0.082	0.082			0.0457	95% Chebyshev	1 of 10
Benzo(a)pyrene	0.0122	0.076	0.076			0.0431	95% Chebyshev	1 of 10
Benzo(b)fluoranthene	0.00941	0.057	0.057			0.0325	95% Chebyshev	1 of 10
Benzo(g,h,i)perylene	0.0241	0.083	0.083			0.0527	95% Chebyshev	1 of 10
Benzo(k)fluoranthene	0.0158	0.106	0.106			0.0595	95% Chebyshev	1 of 10
Cadmium	0.0311	0.11	0.041	32 (p)	0.36 (m)	0.11	Maximum*	3 of 10
Carbazole	0.00512	0.011	0.011			0.00636	95% Student's-t	1 of 10
Chromium	15.2	20.1	10.7	0.4 (i)	26 (a)	16.95	95% Student's-t	10 of 10
Chrysene	0.0145	0.083	0.083			0.0477	95% Chebyshev	1 of 10
Copper	12.12	19.3	7.68	61 (i)	28 (a)	14.41	95% Student's-t	10 of 10
Fluoranthene	0.0208	0.156	0.156			0.156	Maximum*	1 of 10
Indeno(1,2,3-cd)pyrene	0.0551	0.417	0.417			0.417	Maximum*	1 of 10
Lead	13.43	15.2	11	120 (p)	11 (a)	14.33	95% Student's-t	10 of 10
Lithium	21.14	32.5	14.4	2 (p)		24.13	95% Student's-t	10 of 10
Manganese	377.4	551	284	500 (p)	220 (p)	431.8	95% Student's-t	10 of 10
Mercury	0.0213	0.03	0.015	0.1 (i)		0.0241	95% Student's-t	10 of 10
Molybdenum	0.522	0.68	0.42	2 (p)		0.565	95% Student's-t	10 of 10
Phenanthrene	0.0167	0.137	0.137			0.137	Maximum*	1 of 10
Pyrene	0.0218	0.127	0.127			0.0728	95% Chebyshev	1 of 10
Zinc	247	969	36.6	120 (i)	46 (a)	969	Maximum*	10 of 10
LPAH	0.0167	0.137	0.137		29 (i)	0.137		
НРАН	0.18531	1.187	1.187		1.1 (m)	0.927		
Total PAH	0.20201	1.324	1.324			1.064		

- * Recommended UCL exceeds maximum observation, so the maximum measured concentration was used as the EPC.
- + Soil was collected from 0 to 4 ft. below ground surface.

 ** Chemicals of interest are any chemical measured in at least one sample.
- (1) From Table 3-4 of TCEQ, 2006.
- (2) From www.epa.gov/ecotox/ecossl.
- (3) Recommended exposure point concentration to be used based on data distribution per Pro UCL (see Appendix A). When the compound was not detected in a given sample, one-half of the sample detection limit was used as the proxy concentration for that sample.
- (a) avian
- (i) soil invertebrate
- (m) mammal
- (p) plant

TABLE 6 EXPOSURE POINT CONCENTRATION (mg/kg) INTRACOASTAL WATERWAY SEDIMENT

Chemicals of Interest*	Average	Max Detection	Min Detection	TCEQ Marine Sediment PCL ⁽¹⁾	TCEQ Second Effects Level for Sediment (2)	Average of TCEQ PCL and SEL (3)	EPA EcoTox Threshold ⁽⁴⁾	95% UCL	Statistic Used ⁽⁵⁾	# of Detects/# of Samples
1,2-Dichloroethane	4.10E-04	3.02E-03	3.02E-03	4.30E+00	2.58E+01	1.51E+01	-	1.10E-03	95% Chebyshev	1 of 16
1,2-Diphenylhydrazine/azobenzene	7.30E-03	3.17E-02	3.17E-02					1.03E-02	95% Student's-t	1 of 16
2-Methylnaphthalene	8.30E-03	1.88E-02	1.88E-02	7.00E-02	6.70E-01	3.70E-01	-	9.60E-03	95% Student's-t	1 of 16
3,3'-Dichlorobenzidine	4.08E-02	1.51E-01	1.51E-01					5.38E-02	95% Student's-t	1 of 16
4,4'-DDT	4.11E-04	3.32E-03	4.81E-04	1.19E-03	6.29E-02	3.20E-02	1.60E-03	2.30E-03	99% Chebyshev	4 of 17
4,6-Dinitro-2-methylphenol	1.70E-02	6.27E-02	6.27E-02					2.24E-02	95% Student's-t	1 of 16
Acenaphthylene	1.16E-02	6.31E-02	2.39E-02	1.60E-02	5.00E-01	2.58E-01	1.10E+00	2.73E-02	95% Chebyshev	2 of 16
Aluminum	6.85E+03	1.25E+04	3.90E+03					7.88E+03	95% Student's-t	16 of 16
Anthracene	2.01E-02	7.53E-02	2.36E-02	8.53E-02	1.10E+00	5.93E-01		4.24E-02	95% Chebyshev	6 of 16
Antimony	2.25E+00	8.14E+00	7.40E-01					2.99E+00	95% Approx. Gamma	16 of 16
Arsenic	4.03E+00	7.62E+00	2.41E+00	8.20E+00	7.00E+01	3.91E+01	8.20E+00	4.64E+00	95% Student's-t	16 of 16
Atrazine (Aatrex)	1.79E-02	8.14E-02	8.14E-02					2.54E-02	95% Student's-t	1 of 16
Barium	2.15E+02	3.77E+02	1.16E+02					2.43E+02	95% Approx. Gamma	16 of 16
Benzo(a)anthracene	4.54E-02	3.95E-01	6.75E-02	2.61E-01	1.60E+00	9.31E-01		3.01E-01	99% Chebyshev	3 of 16
Benzo(a)pyrene	6.61E-02	4.45E-01	5.25E-02	4.30E-01	1.60E+00	1.02E+00	4.30E-01	3.52E-01	99% Chebyshev	6 of 16
Benzo(b)fluoranthene	1.00E-01	6.11E-01	3.24E-02	4.502-01	1.002100	1.022100	4.50E-01	4.91E-01	99% Chebyshev	9 of 16
Benzo(g,h,i)perylene	6.61E-02	4.42E-01	1.73E-02					3.57E-01	99% Chebyshev	7 of 16
Benzo(k)fluoranthene	5.89E-02	3.18E-01	4.74E-02					2.71E-01	99% Chebyshev	6 of 16
Beryllium	4.63E-01	8.20E-01	2.90E-01					5.28E-01	95% Student's-t	16 of 16
Boron	1.20E+01	2.72E+01	1.25E+01					2.72E+01	Maximum*	10 of 16
Butyl Benzyl Phthalate	2.08E-02	2.02E-01	2.02E-01				1.10E+01	7.35E-02	95% Chebyshev	1 of 16
Carbazole	2.08E-02 1.51E-02	8.61E-02	1.95E-02				1.10E+01	7.35E-02 3.84E-02	95% Chebyshev 95% Chebyshev	3 of 16
				4.30E+00	2.58E+01	1.51E+01				
Chloroform	9.02E-04	5.27E-03 1.44F+01	5.04E-03 5.01F+00	4.30E+00 8.10F+01	2.58E+01 3.70F+02	1.51E+01 2.26F+02		5.00E-03 1.04F+01	99% Chebyshev	2 of 16 16 of 16
Chromium	9.21E+00	1.44E+01 4.75E-01					8.10E+01		95% Student's-t	
Chrysene	7.74E-02		1.37E-02	3.84E-01	2.80E+00	1.59E+00		1.53E-01	95% Approx. Gamma	10 of 16
Cobalt	4.39E+00	7.16E+00	3.05E+00					4.88E+00	95% Student's-t	16 of 16
Copper	7.11E+00	1.26E+01	3.28E+00	3.40E+01	2.70E+02	1.52E+02	3.40E+01	8.43E+00	95% Student's-t	16 of 16
Cyclohexane	2.30E-03	1.92E-03	1.92E-03					2.90E-03	95% Approx. Gamma	1 of 16
Dibenz(a,h)anthracene	4.35E-02	2.35E-01	5.11E-02	6.34E-02	2.60E-01	1.62E-01		2.05E-01	99% Chebyshev	6 of 16
Dibenzofuran	1.23E-02	3.05E-02	2.68E-02				2.00E+00	1.52E-02	95% Student's-t	2 of 16
Diethyl Phthalate	1.35E-02	3.89E-02	3.89E-02				6.30E-01	1.66E-02	95% Student's-t	1 of 16
Di-n-octyl Phthalate	1.80E-02	1.92E-01	1.47E-02					6.86E-02	95% Chebyshev	2 of 16
Fluoranthene	1.13E-01	8.04E-01	2.22E-02	6.00E-01	5.10E+00	2.85E+00	1.40E+00	6.14E-01	99% Chebyshev	8 of 16
Fluorene	1.22E-02	4.60E-02	1.24E-02	1.90E-02	5.40E-01	2.80E-01	5.40E-01	2.43E-02	95% Chebyshev	4 of 16
gamma-Chlordane	3.13E-04	8.26E-04	6.38E-04	2.26E-03	4.79E-03	3.53E-03		5.70E-04	95% Chebyshev	4 of 16
Hexachlorobenzene	1.00E-02	3.19E-02	3.19E-02					1.26E-02	95% Student's-t	1 of 16
Indeno(1,2,3-cd)pyrene	7.22E-02	4.05E-01	5.56E-02					3.47E-01	99% Chebyshev	6 of 16
Iron	1.34E+04	2.82E+04	6.75E+03					1.60E+04	95% Approx. Gamma	16 of 16
Lead	1.16E+01	3.23E+01	5.00E+00	4.67E+01	2.18E+02	1.32E+02	4.70E+01	1.48E+01	95% Approx. Gamma	16 of 16
Isopropylbenzene (cumene)	1.00E-03	7.04E-03	4.64E-03					5.80E-03	99% Chebyshev	2 of 16
Lithium	1.05E+01	2.00E+01	6.40E+00					1.21E+01	95% Student's-t	16 of 16
Manganese	2.83E+02	4.74E+02	1.92E+02					3.22E+02	95% Student's-t	16 of 16
Mercury	2.01E-02	3.60E-02	1.10E-02	1.50E-01	7.10E-01	4.30E-01	1.50E-01	2.33E-02	95% Student's-t	16 of 16
Methylcyclohexane	9.51E-04	3.70E-03	3.70E-03					1.30E-03	95% Approx. Gamma	1 of 16
Molybdenum	6.67E-01	5.66E+00	1.40E-01					2.15E+00	95% Chebyshev	16 of 16
Nickel	9.59E+00	1.67E+01	5.80E+00	2.09E+01	5.16E+01	3.63E+01	2.10E+01	1.08E+01	95% Student's-t	16 of 16
n-Nitrosodiphenylamine	1.02E-02	4.34E-02	4.34E-02					1.41E-02	95% Student's-t	1 of 16
Phenanthrene	7.46E-02	5.08E-01	3.11E-02	2.40E-01	1.50E+00	8.70E-01	1.10E+00	3.88E-01	99% Chebyshev	8 of 16
Pyrene	1.30E-01	8.62E-01	1.76E-02	6.65E-01	2.60E+00	1.63E+00	6.60E-01	6.78E-01	99% Chebyshev	10 of 16
Silver	1.72E-01	5.40E-01	3.00E-01					3.76E-01	Maximum*	6 of 16
Strontium	4.49E+01	8.17E+01	3.28E+01					5.12E+01	95% Student's-t	16 of 16
Titanium	2.56E+01	3.66E+01	1.91E+01					2.78E+01	95% Student's-t	16 of 16
Toluene	1.40E-03	5.81E-03	5.81E-03	9.40E-01	5.66E+00	3.30E+00	6.70E-01	2.00E-03	95% Approx. Gamma	1 of 16
Vanadium	1.39E+01	2.12E+01	9.06E+00					1.54E+01	95% Student's-t	16 of 16
Zinc	4.54E+01	9.26E+01	1.80E+01	1.50E+02	4.10E+02	2.80E+02	1.50E+02	5.41E+01	95% Student's-t	16 of 16
I PAH	1.27E-01	7.11E-01	1.10E-01	5.52E-01	3.16E+00	1.86E+00	1.502102	4.92E-01	0070 010001110-1	10 01 10
HPAH	7.73E-01	4.99E+00	3.77E-01	1.70E+00	9.60E+00	5.65E+00		3.77E+00		+
Total PAHs	8.99E-01	5.70E+00	4.87E-01	4.02E+00	4.48E+01	2.44E+01	4.00E+00	4.26E+00		+
10(0) 17(1)	0.33L-01	J./ ULTUU	4.07 L-01	4.02LT00	4.40LT01	2.44LTU1	+.UULTUU	7.20LT00		+

- * Recommended UCL exceeds maximum observation so the maximum measured concentration was used as the EPC.

- Recommended UCL exceeds maximum observation so the maximum measured concentration was used as the EPC.

 'Chemicals of interest are any chemical measured in at least one sample.

 (1) From Table 3-3 of TCEQ, 2006.

 (2) From Table A-2 of TCEQ, 2006.

 (3) Midpoint between Sediment PCL and SEL as per memo received on January 24, 2008 from TCEQ.

 (4) From Table 2 of EPA's EcoTox Threshold ECO Update January, 2006.

 (5) Recommended exposure point concentration to be used based on data distribution per Pro UCL (see Appendix A). When the compound was not detected in a given sample, one-half of the sample detection limit was used as the proxy concentration for that sample.

TABLE 7
EXPOSURE POINT CONCENTRATION (mg/kg)
INTRACOASTAL WATERWAY BACKGROUND SEDIMENT

					TCEQ Second Effects Level for	Average of TCEQ PCL and	EPA EcoTox		Statistic	# of Detects/#
Chemicals of Interest ⁺	Average	Max Detection	Min Detection	Sediment PCL (1)	Sediment (2)	SEL (3)	Threshold (4)	95% UCL	Used (5)	of Samples
1,2,4-Trimethylbenzene	9.10E-04	3.91E-03	3.91E-03	2.16E+00	1.30E+01	7.56E+00		2.00E-03	95% Approx. Gamma	1 of 9
1,4-Dichlorobenzene	1.40E-03	4.11E-03	4.11E-03	7.00E-01	4.21E+00	2.46E+00	3.50E-01	2.80E-03	95% Approx. Gamma	1 of 9
2-Butanone	1.10E-03	2.16E-03	2.00E-03					1.70E-03	95% Student's-t	2 of 9
4,4'-DDT	1.56E-04	5.70E-04	5.70E-04	1.19E-03	6.29E-02	3.20E-02	1.60E-03	3.82E-04	95% Chebyshev	1 of 9
Aluminum	1.22E+04	2.18E+04	4.73E+03					1.65E+04	95% Student's-t	9 of 9
Antimony	4.02E+00	7.33E+00	1.68E+00					5.40E+00	95% Student's-t	9 of 9
Arsenic	5.81E+00	9.62E+00	2.36E+00	8.20E+00	7.00E+01	3.91E+01	8.20E+00	7.74E+00	95% Student's-t	9 of 9
Barium	209.7.2	2.80E+02	1.11E+02					2.39E+02	95% Student's-t	9 of 9
Benzo(b)fluoranthene	8.70E-03	3.69E-02	3.69E-02					2.41E-02	95% Chebyshev	1 of 9
Beryllium	7.66E-01	1.32E+00	3.20E-01					1.02E+00	95% Student's-t	9 of 9
Boron	2.76E+01	4.79E+01	1.33E+01					3.56E+01	95% Student's-t	9 of 9
Carbon Disulfide	1.50E-03	8.41E-03	3.41E-03					4.80E-03	95% Approx. Gamma	2 of 9
Chromium	1.28E+01	2.25E+01	5.81E+00	8.10E+01	3.70E+02	2.26E+02	8.10E+01	1.69E+01	95% Student's-t	9 of 9
cis-1,2-Dichloroethene	3.40E-03	2.84E-02	2.84E-02					3.45E-02	99% Chebyshev	1 of 9
Cobalt	6.70E+00	1.18E+01	3.32E+00					8.66E+00	95% Student's-t	9 of 9
Copper	8.14E+00	1.68E+01	2.68E+00	3.40E+01	2.70E+02	1.52E+02	3.40E+01	1.13E+01	95% Student's-t	9 of 9
Iron	1.65E+04	2.79E+04	7.44E+03					2.15E+04	95% Student's-t	9 of 9
Lead	9.59E+00	1.45E+01	5.34E+00	4.67E+01	2.18E+02	1.32E+02	4.70E+01	1.18E+01	95% Student's-t	9 of 9
Lithium	2.14E+01	4.46E+01	7.29E+00					3.03E+01	95% Student's-t	9 of 9
Manganese	3.31E+02	4.42E+02	2.12E+02					3.86E+02	95% Student's-t	9 of 9
Mercury	1.76E-02	5.00E-02	6.50E-03	1.50E-01	7.10E-01	4.30E-01	1.50E-01	2.73E-02	95% Approx. Gamma	9 of 9
Molybdenum	2.41E-01	3.50E-01	1.60E-01					2.83E-01	95% Student's-t	9 of 9
Nickel	1.49E+01	2.73E+01	6.31E+00	2.09E+01	5.16E+01	3.63E+01	2.10E+01	1.99E+01	95% Student's-t	9 of 9
Strontium	5.92E+01	8.74E+01	3.48E+01					7.28E+01	95% Student's-t	9 of 9
Titanium	3.18E+01	5.45E+01	2.11E+01					3.83E+01	95% Student's-t	9 of 9
Trichloroethene	2.10E-03	1.59E-02	1.59E-02	1.47E+00	8.82E+00	5.15E+00	1.60E+00	4.30E-03	99% Chebyshev	1 of 9
Vanadium	2.02E+01	3.42E+01	1.02E+01					2.59E+01	95% Student's-t	9 of 9
Xylene	1.70E-03	3.35E-03	3.35E-03					2.60E-03	95% Student's-t	1 of 9
Zinc	3.60E+01	5.41E+01	1.93E+01	1.50E+02	4.10E+02	2.80E+02	1.50E+02	4.45E+01	95% Student's-t	9 of 9
LPAH ⁺⁺				5.52E-01	3.16E+00	1.86E+00				
HPAH	8.70E-03	3.69E-02	3.69E-02	1.70E+00	9.60E+00	5.65E+00		2.41E-02		
Total PAHs	8.70E-03	3.69E-02	3.69E-02	4.02E+00	4.48E+01	2.44E+01		2.41E-02		

- (1) From Table 3-3 of TCEQ, 2006.
- (2) From Table A-2 of TCEQ, 2006.
- (3) Midpoint between Sediment PCL and SEL as per memo received on January 24, 2008 from TCEQ.
- (4) From Table 2 of EPA's EcoTox Threshold ECO Update January, 2006.
- (5) Recommended exposure point concentration to be used based on data distribution per Pro UCL (see Appendix A). When the compound was not detected in a given sample, one-half of the sample detection limit was used as the proxy concentration for that sample.

⁺ Chemicals of interest are any chemical measured in at least one sample.

^{**} No LPAHs were detected in the samples.

TABLE 8 EXPOSURE POINT CONCENTRATION (mg/kg) WETLAND SEDIMENT

Chemicals of Interest*	Average	Max Detection	Min Detection	TCEQ Marine Sediment PCL (1)	TCEQ Second Effects Level for Sediment (2)	Average of TCEQ PCL and SEL (3)	EPA EcoTox Threshold (4)	95% UCL	Statistic Used ⁽⁵⁾	# of Detects/#
1.2-Dichloroethane	2.49E-04	2.40E-03	1.83E-03	4.30E+00	2.58E+01	1.51E+01		5.90E-04	95% Chebyshev	3 of 48
2-Methylnaphthalene	2.49E-04 2.46E-02	4.30E-01	1.22E-02	7.00E-02	6.70E-01	3.70E-01		1.16E-01	99% Chebyshev	4 of 48
4.4'-DDT	9.52E-04	9.22E-03	9.29E-04	1.19E-03	6.29E-02	3.20E-02	1.60E-03	2.20E-03	97.5% Chebyshev	16 of 55
Acenaphthene	9.52E-04 1.95E-02	9.22E-03 1.33E-01	9.29E-04 1.60E-02	1.60E-02	5.00E-01	2.58E-01	1.10E+00	6.40E-02	99% Chebyshev	4 of 48
Acenaphthylene	3.14E-02	5.45E-01	2.91E-02	4.40E-02	6.40E-01	3.42E-01	1.10E+00	1.65E-01	99% Chebyshev	4 of 48
Aluminum	1.32E+04	1.82E+04	3.40E+03	4.40L-02	0.40L-01	3.42L-01		1.40E+04	95% Student's-t	48 of 48
Anthracene	2.88E-02	3.34E-01	8.38E-03	8.53E-02	1.10E+00	5.93E-01		1.26E-01	99% Chebyshey	8 of 48
Antimony ⁽⁶⁾	1.15E+00	4.24E+00	4.60E-01	0.33L-02	1.102+00	3.33L-01		1.61E+00	95% Chebyshev	40 of 48
Arsenic	2.53E+00	1.28E+01	1.00E+00	8.20E+00	7.00E+01	3.91E+01	8.20E+00	3.40E+00	95% Chebysnev 95% Approx. Gamma	35 of 48
Barium	1.52E+02	8.20E+02	3.60E+01	6.20E+00	7.00E+01	3.91E+01	6.20E+00	2.38E+02	95% Approx. Garrina 95% Chebyshev	48 of 48
		9.93E-01	5.46E-02	2.61E-01	1.60E+00	9.31E-01		3.06E-01	95% Chebyshev 99% Chebyshev	5 of 48
Benzo(a)anthracene Benzo(a)pyrene	5.43E-02 1.04E-01	1.30E+00	1.76E-02	4.30E-01	1.60E+00	1.02E+00	4.30E-01	4.76E-01	99% Chebyshev	15 of 48
Benzo(b)fluoranthene	9.02E-02	1.36E+00	1.62E-02	4.30E-01	1.60E+00	1.02E+00	4.30E-01	4.76E-01 4.31E-01	99% Chebyshev	19 of 48
Benzo(g,h,i)perylene	9.02E-02 1.98E-01	1.94E+00	1.62E-02 4.40E-02					7.55E-01	99% Chebyshev	24 of 48
Benzo(g,n,i)perylene Benzo(k)fluoranthene	6.59E-02	7.30E-01	6.92E-02					2.37E-01	99% Chebyshev	14 of 48
Beryllium	8.94E-01	1.37E+00	2.80E-01					9.43E-01	95% Student's-t	48 of 48
Boron ⁽⁶⁾	1.45E+01	4.62E+01	5.17E+00					3.20E+01	95% Student's-t	24 of 48
Cadmium	1.03E-01	4.80E-01 1.41E-01	3.30E-02 1.58E-02	1.20E+00	9.60E+00	5.40E+00	1.20E+00	3.13E-01	99% Chebyshev	20 of 48
Carbazole	1.92E-02							6.45E-02	99% Chebyshev	5 of 48
Carbon Disulfide	5.25E-04	6.99E-03	3.34E-03					2.60E-03	99% Chebyshev	4 of 48
Chromium	1.51E+01	4.46E+01	8.96E+00	8.10E+01	3.70E+02	2.26E+02	8.10E+01	1.64E+01	95% Student's-t	48 of 48
Chromium VI	9.56E-01	4.04E+00	1.30E+00	2.045.04	0.005.00	4.505.00		3.36E+00	99% Chebyshev	6 of 25
Chrysene	2.17E-01 6.98E+00	4.05E+00	1.10E-02	3.84E-01	2.80E+00	1.59E+00		1.24E+00 7.32E+00	99% Chebyshev	19 of 48
Cobalt	1.45E+01	9.89E+00 4.90E+01	3.00E+00 5.44E+00	3.40E+01	2.70E+02	1.52E+02	3.40E+01	7.32E+00 1.66E+01	95% Student's-t	48 of 48 48 of 48
Copper	2.03E-01	4.90E+01 2.91E+00	1.29E-01			1.52E+02 1.62E-01	3.40E+01	1.00E+01 1.10E+00	95% Student's-t	6 of 48
Dibenz(a,h)anthracene Dibenzofuran	1.39E-02	8.00E-02	1.29E-01 1.00E-02	6.34E-02	2.60E-01	1.62E-01	2.00E+00	2.50E-02	99% Chebyshev 95% Chebyshev	3 of 48
Endosulfan Sulfate	1.80E-02	6.00E-02	7.31E-03				5.40E-03	1.44E-02	99% Chebyshev	3 of 48
	1.00E-03	1.00E-02	5.66E-04					4.30E-03	99% Chebyshev	9 of 48
Endrin Aldehyde Endrin Ketone	7.85E-04	1.00E-02 1.30E-02	3.29E-03					4.30E-03 2.00E-03	95% Chebyshev	3 of 48
Fluoranthene	1.08E-01	2.17E+00	3.29E-03 1.20E-02	6.00E-01	5.10E+00	2.85E+00	1.40E+00	6.37E-01	99% Chebyshev	13 of 48
Fluorene	1.86E-02	1.39E-01	1.50E-02	1.90E-02	5.40E-01	2.80E-01	5.40E-01	6.37E-01	99% Chebyshev	4 of 48
gamma-Chlordane	4.05E-02	3.60E-03	7.69E-04	1.90E-02 2.26E-03	4.79E-03	3.53E-03	5.40E-01	8.27E-04	95% Chebyshev	4 of 48
Indeno(1,2,3-cd)pyrene	2.01E-01	1.94E+00	6.28E-02	2.20E-03	4.79E-03	3.33E-03		7.85E-01	99% Chebyshev	23 of 48
	1.72E+04	6.09E+04	1.11E+04					1.88E+04	95% Student's-t	49 of 48
Iron Lead	2.54E+01	2.37E+02	9.40E+00	4.67E+01	2.18E+02	1.32E+02	4.70E+01	4.68E+04	95% Student's-t	49 01 48 48 of 48
Lithium	1.87E+01	2.76E+01	5.43E+00	4.07LT01	2.10L+02	1.32L+02	4.70L+01	1.96E+01	95% Student's-t	48 of 48
Manganese	3.32E+02	1.01E+03	8.76E+01					3.83E+02	95% Approx. Gamma	48 of 48
Mercury	1.99E-02	8.10E-02	6.10E-03	1.50E-01	7.10E-01	4.30E-01	1.50E-01	2.68E-02	95% Approx. Garrina 95% H-UCL	26 of 48
Molybdenum	5.81E-01	3.24E+00	1.30E-01	1.50L-01	7.10L-01	4.30L-01	1.30L-01	7.63E-01	95% Approx. Gamma	38 of 48
Nickel	1.73E+01	2.77E+01	1.09E+01	2.09E+01	5.16E+01	3.63E+01	2.10E+01	1.81E+01	95% Approx. Garrina 95% Student's-t	48 of 48
Phenanthrene	7.61E-02	1.30E+00	2.30E-02	2.40E-01	1.50E+00	8.70E-01	1.10E+00	4.32E-01	99% Chebyshev	12 of 48
Pyrene	1.54E-01	1.64E+00	1.59E-02	6.65E-01	2.60E+00	1.63E+00	6.60E-01	6.63E-01	99% Chebyshev	19 of 48
Strontium	6.70E+01	3.30E+02	1.88E+01	6.65E-U1	2.60E+00	1.63E+00	6.60E-01	7.64E+01	95% H-UCL	48 of 48
Tin ⁽⁶⁾										
	6.38E-01 2.91E+01	4.61E+00 6.87E+01	3.45E+00 8.15E+00					1.26E+00 3.27E+01	95% Chebyshev	4 of 48 48 of 48
Titanium	2.91E+01 6.55E-04	6.87E+01 2.14E-03	8.15E+00 1.57E-03	9.40E-01	5.66E+00	3.30E+00	6.70E-01	3.27E+01 1.20E-03	95% Approx. Gamma 95% Chebyshev	48 of 48 3 of 48
Toluene		2.14E-03 3.20E+01	1.57E-03 9.02E+00	9.40E-01	5.66E+00	3.30E+00	6.70E-01			
Vanadium	2.17E+01 1.39E+02	3.20E+01 9.03E+02	9.02E+00 3.15E+01	1.50E+02	4.10E+02	2.80E+02	1.50E+02	2.28E+01 2.36E+02	95% Student's-t 95% Chebyshev	48 of 48 53 of 53
Zinc LPAH	1.39E+02 1.99E-01	9.03E+02 2.88E+00	3.15E+01 1.04E-01	5.52E-01	3.16E+00	1.86E+00	1.50E+02	2.36E+02 9.67E-01	95% ChebysneV	23 01 23
HPAH	1.40E+00	1.90E+01	4.32E-01	1.70E+00	9.60E+00	5.65E+00		6.63E+00		-
TOTAL PAHs	1.40E+00 1.59E+00	1.90E+01 2.19E+01	4.32E-01 5.36E-01	1.70E+00 4.02E+00	9.60E+00 4.48E+01	5.65E+00 1.18E+01	4.00E+00	7.60E+00		
TOTAL PARS	1.59E+00	Z.19E+U1	5.30E-U1	4.020+00	4.40E+UI	1.100+01	4.00E+00	7.60€+00		1

- ⁺ Chemicals of interest are any chemical measured in at least one sample at a frequency of detection greater than five percent.
- (1) From Table 3-3 of TCEQ, 2006.
- (2) From Table A-2 of TCEQ, 2006.
- (3) Midpoint between Sediment PCL and SEL as per memo received on January 24, 2008 from TCEQ.

- (3) Midpoint between Sediment PCL and SEL as per memo received on January 24, 2008 from TCEQ.

 (4) From Table 2 of EPAS ECOTAX Threshold ECO Update January, 2006.

 (5) Recommended exposure point concentration to be used based on data distribution per Pro UCL (see Appendix A). When the compound was not detected in a given sample, one-half of the sample detection limit was used as the proxy concentration for that sample.

 (6) Samples 2WSED8, SWSED10, 4WSED2, and 4WSED3 were re-analyzed for antimony, boron, and tin because they were measured at concentrations much higher than the rest of the data although OA/QC indicated that they were acceptable. The re-analysis was run twice with good concurrence between the two re-analyses but with very different values from the original so the first re-analyzed value was used in the UCL calculation.

TABLE 9 EXPOSURE POINT CONCENTRATION (mg/kg) POND SEDIMENT

				TCEQ Marine	TCEQ Second Effects Level	Average of TCEQ PCL and	ЕРА ЕсоТох		Statistic	
Chemicals of Interest*	Average	Max Detection	Min Detection		for Sediment (2)	SEL (3)	Threshold (4)	RME EPC	Used ⁽⁵⁾	# of Detects/# of Samples
2,4,6-Trichlorophenol	1.75E-02	4.29E-02	4.29E-02					4.29E-02	RME EPC is max detect	1 of 8
4,4'-DDD	6.96E-03	6.76E-04	6.76E-04	1.22E-03	7.81E-03	4.52E-03		6.76E-04	RME EPC is max detect*	3 of 8
4,4'-DDT	4.16E-03	1.57E-03	1.11E-03	1.19E-03	6.29E-02	3.20E-02	1.60E-03	1.57E-03	RME EPC is max detect*	1 of 8
Acetone	2.38E-02	7.98E-02	7.98E-02	1.67E+02	1.00E+04	5.09E+03		7.98E-02	RME EPC is max detect	1 of 8
Aluminum	1.17E+04	1.63E+04	7.99E+03					1.63E+04	RME EPC is max detect	8 of 8
Antimony	7.95E-01	1.85E+00	3.30E-01					1.85E+00	RME EPC is max detect	8 of 8
Arsenic	1.74E+00	5.01E+00	3.39E+00	8.20E+00	7.00E+01	3.91E+01	8.20E+00	5.01E+00	RME EPC is max detect	3 of 8
Barium	1.99E+02	4.17E+02	1.08E+02					4.17E+02	RME EPC is max detect	8 of 8
Benzo(b)fluoranthene	4.77E-02	1.06E-01	2.93E-02					1.06E-01	RME EPC is max detect	6 of 8
Benzo(g,h,i)perylene	2.40E-02	1.35E-01	1.35E-01					1.35E-01	RME EPC is max detect	1 of 8
Benzo(k)fluoranthene	5.27E-02	1.30E-01	1.10E-01					1.30E-01	RME EPC is max detect	3 of 8
Beryllium	8.34E-01	1.13E+00	5.80E-01					1.13E+00	RME EPC is max detect	8 of 8
beta-BHC	7.96E-03	6.99E-04	6.99E-04					7.00E-04	RME EPC is max detect*	1 of 8
Boron	1.50E+01	2.84E+01	1.10E+01					2.84E+01	RME EPC is max detect	5 of 8
Bromomethane	8.90E-03	3.10E-02	1.40E-02					3.10E-02	RME EPC is max detect	2 of 8
Cadmium	1.47E-01	2.70E-01	1.90E-01	1.20E+00	9.60E+00	5.40E+00	1.20E+00	2.70E-01	RME EPC is max detect	5 of 8
Carbon Disulfide	1.40E-03	7.71E-03	7.71E-03					7.70E-03	RME EPC is max detect	1 of 8
Chromium	1.29E+01	2.01E+01	8.29E+00	8.10E+01	3.70E+02	2.26E+02	8.10E+01	2.01E+01	RME EPC is max detect	8 of 8
Chrysene	9.50E-03	2.57E-02	2.57E-02	3.84E-01	2.80E+00	1.59E+00		2.57E-02	RME EPC is max detect	1 of 8
Cobalt	6.94E+00	8.99E+00	5.19E+00					8.99E+00	RME EPC is max detect	8 of 8
Copper	1.52E+01	2.68E+01	8.33E+00	3.40E+01	2.70E+02	1.52E+02	3.40E+01	2.68E+01	RME EPC is max detect	8 of 8
Iron	1.53E+04	2.01E+04	1.13E+04					2.01E+04	RME EPC is max detect	8 of 8
Lead	1.75E+01	3.05E+01	1.06E+01	4.67E+01	2.18E+02	1.32E+02	4.70E+01	3.05E+01	RME EPC is max detect	8 of 8
Lithium	1.85E+01	2.37E+01	1.35E+01					2.37E+01	RME EPC is max detect	8 of 8
m,p-Cresol	1.49E-02	3.75E-02	3.75E-02					3.75E-02	RME EPC is max detect	1 of 8
Manganese	4.88E+02	7.11E+02	3.52E+02					7.11E+02	RME EPC is max detect	8 of 8
Methyl Iodide	8.10E-03	4.10E-02	4.10E-02					1.11E-02	RME EPC is max detect	1 of 8
Molybdenum	1.46E-01	6.00E-01	2.10E-01					6.00E-01	RME EPC is max detect	2 of 8
Nickel	1.63E+01	2.06E+01	1.23E+01	2.09E+01	5.16E+01	3.63E+01	2.10E+01	2.06E+01	RME EPC is max detect	8 of 8
Pyrene	1.47E-02	2.65E-02	2.01E-02	6.65E-01	2.60E+00	1.63E+00	6.60E-01	2.65E-02	RME EPC is max detect	3 of 8
Strontium	1.04E+02	1.81E+02	6.33E+01					1.81E+02	RME EPC is max detect	8 of 8
Titanium	3.00E+01	4.05E+01	1.91E+01					4.05E+01	RME EPC is max detect	8 of 8
Vanadium	2.18E+01	2.74E+01	1.68E+01					2.74E+01	RME EPC is max detect	8 of 8
Zinc	3.32E+02	9.99E+02	3.82E+01	1.50E+02	4.10E+02	2.80E+02	1.50E+02	9.99E+02	RME EPC is max detect	8 of 8
LPAH ⁺⁺								i		
HPAHs	1.49E-01	4.23E-01	3.20E-01	1.70E+00	9.60E+00	5.65E+00		4.23E-01		
Total PAHs	1.49E-01	1.49E-01	1.49E-01	4.02E+00	4.48E+01	2.44E+01	4.00E+00	4.23E-01		
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- (1) From Table 3-3 of TCEQ, 2006.
- (2) From Table A-2 of TCEQ, 2006.
- (3) Midpoint between Sediment PCL and SEL as per memo received on January 24, 2008 from TCEQ.
- (4) From Table 2 of EPA's EcoTox Threshold ECO Update January, 2006.
- (5) Recommended exposure point concentration to be used based on data distribution per Pro UCL (see Appendix A). When the compound was not detected
- in a given sample, one-half of the sample detection limit was used as the proxy concentration for that sample.

^{*}The maximum detected value is sometimes lower than the average since 1/2 of the reporting limit was used as a proxy value when it was not detected, and because J flag data were used in the risk assessment

⁺ Chemicals of interest are any chemical measured in at least one sample.

^{**} No LPAHs were detected in the samples.

TABLE 10
EXPOSURE POINT CONCENTRATION (mg/L)
INTRACOASTAL WATERWAY SURFACE WATER (TOTAL)

				TCEQ Ecological			
				Benchmark for	RME	Statistic	# of Detects/#
Chemicals of Interest ⁺	Average	Max Detection	Min Detection	Water ⁽¹⁾	EPC	Used	of Samples
Acrylonitrile	9.38E-04	2.10E-03	2.10E-03	2.91E-01	2.10E-03	RME EPC is max detect	1 of 4
Aluminum	4.05E-01	5.50E-01	2.80E-01		5.50E-01	RME EPC is max detect	4 of 4
Barium	2.40E-02	2.60E-02	2.20E-02	2.50E+01	2.60E-02	RME EPC is max detect	4 of 4
Boron	4.69E+00	4.81E+00	4.60E+00		4.81E+00	RME EPC is max detect	4 of 4
Chromium	7.98E-02	1.20E-01	7.00E-02		1.20E-01	RME EPC is max detect	4 of 4
Copper	6.53E-03	1.10E-02	9.10E-03		1.10E-02	RME EPC is max detect	2 of 4
Iron	4.63E-01	5.90E-01	3.20E-01		5.90E-01	RME EPC is max detect	4 of 4
Lithium	2.53E-01	2.70E-01	2.20E-01		2.70E-01	RME EPC is max detect	4 of 4
Manganese	4.03E-02	4.80E-02	3.30E-02		4.80E-02	RME EPC is max detect	4 of 4
Silver	2.80E-03	3.70E-03	2.80E-03		3.70E-03	RME EPC is max detect	3 of 4
Strontium	7.22E+00	7.35E+00	6.95E+00		7.35E+00	RME EPC is max detect	4 of 4
Titanium	3.90E-03	5.70E-03	2.00E-03		5.70E-03	RME EPC is max detect	4 of 4
Vanadium	4.25E-02	6.10E-02	3.50E-02		6.10E-02	RME EPC is max detect	4 of 4

⁺ Chemicals of interest are any chemical measured in at least one sample.

^{(1) -} From Table 3-2 of TCEQ, 2006 and only the TCEQ Ecological Benchmarks for Water without the "dissolved" notation were included in the table.

TABLE 11
EXPOSURE POINT CONCENTRATION (mg/L)
INTRACOASTAL WATERWAY BACKGROUND SURFACE WATER (TOTAL)

				1			1
				TCEQ			
				Ecological			
				Benchmark	RME		# of Detects/#
Chemicals of Interest ⁺	Average	Max Detection	Min Detection	for Water (1)	EPC	Statistic Used	of Samples
4,4'-DDD	3.30E-06	7.62E-06	3.60E-06	2.50E-05	7.62E-06	RME EPC is max detect	2 of 4
4,4'-DDT	4.93E-06	1.30E-05	1.30E-05	1.00E-06	1.30E-05	RME EPC is max detect	1 of 4
Acetone	1.47E-03	4.52E-03	4.52E-03	2.82E+02	4.52E-03	RME EPC is max detect	1 of 4
Aldrin	9.24E-06	1.10E-05	4.40E-06	6.50E-04 (3)	1.10E-05	RME EPC is max detect	4 of 4
Aluminum	2.44E-01	4.00E-01	2.10E-01		4.00E-01	RME EPC is max detect	4 of 4
Barium	1.96E-02	2.00E-02	2.00E-02	2.50E+01	2.00E-02	RME EPC is max detect	4 of 4
Benzo(g,h,i)perylene	1.20E-04	2.02E-04	2.02E-04	3.00E-01 (3)	2.02E-04	RME EPC is max detect	1 of 4
Benzo(k)fluoranthene	1.73E-04	3.11E-04	3.11E-04	3.00E-01 (3)	3.11E-04	RME EPC is max detect	1 of 4
Bis(ethylhexyl) Phthalate	4.17E-03	1.97E-02	1.94E-02	3.60E-01 (2)	1.97E-02	RME EPC is max detect	2 of 4
Boron	4.38E+00	4.50E+00	4.27E+00		4.50E+00	RME EPC is max detect	4 of 4
Chromium	7.84E-02	7.90E-02	7.80E-02		7.90E-02	RME EPC is max detect	4 of 4
Chromium VI	6.20E-03	1.10E-02	1.10E-02		1.10E-02	RME EPC is max detect	1 of 4
Chrysene	1.61E-04	3.68E-04	3.68E-04	3.00E-01 (3)	3.68E-04	RME EPC is max detect	1 of 4
Di-n-butyl Phthalate	6.70E-04	1.42E-03	8.28E-04	5.00E-03	1.42E-03	RME EPC is max detect	2 of 4
Di-n-octyl Phthalate	2.65E-04	6.50E-04	6.50E-04	3.4E-03 (2)	6.50E-04	RME EPC is max detect	1 of 4
Iron	3.40E-01	4.30E-01	3.40E-01		4.30E-01	RME EPC is max detect	4 of 4
Lithium	3.00E-01	3.40E-01	2.70E-01		3.40E-01	RME EPC is max detect	4 of 4
Manganese	3.60E-02	4.10E-02	3.40E-02		4.10E-02	RME EPC is max detect	4 of 4
Methoxyclor	3.66E-06	1.40E-05	1.40E-05	3.00E-05	1.40E-05	RME EPC is max detect	1 of 4
Molybdenum	2.72E-03	4.20E-03	1.80E-03		4.20E-03	RME EPC is max detect	2 of 4
Silver	5.43E-03	5.90E-03	4.70E-03		5.90E-03	RME EPC is max detect	4 of 4
Strontium	7.76E+00	8.31E+00	7.31E+00		8.31E+00	RME EPC is max detect	4 of 4
Titanium	2.98E-03	4.20E-03	2.40E-03		4.20E-03	RME EPC is max detect	4 of 4
Vanadium	4.14E-02	3.70E-02	1.10E-02		3.70E-02	RME EPC is max detect	4 of 4
LPAHs ⁺⁺							
HPAHs	4.55E-04	8.81E-04	8.81E-04	3.00E-01 (3)	8.81E-04		
Total PAHs	4.55E-04	4.55E-04	4.55E-04	3.00E-01 (3)	4.55E-04		

- (1) From Table 3-2 of TCEQ, 2006 and only the TCEQ Ecological Benchmarks for Water without the "dissolved" notation were included in the table.
- (2) Buchman, 2008.
- (3) Buchman, 2008 acute value for chemical class.

⁺ Chemicals of interest are any chemical measured in at least one sample.

^{**} No LPAHs were detected in the samples.

TABLE 12
EXPOSURE POINT CONCENTRATION (mg/L)
WETLAND SURFACE WATER (TOTAL)

Chemicals of Interest ⁺	Average	Max Detection	Min Detection	TCEQ Ecological Benchmark for Water ⁽¹⁾	RME EPC	Statistic Used	# of Detects/# of Samples
1,2-Dichloroethane	2.30E-03	3.85E-03	2.55E-03	5.65E+00	3.85E-03	RME EPC is max detect	3 of 4
Acrolein	1.21E-02	9.29E-03	9.29E-03	5.00E-03	9.30E-03	RME EPC is max detect*	1 of 4
Aluminum	5.08E-01	8.00E-01	1.70E-01		8.00E-01	RME EPC is max detect	4 of 4
Barium	2.20E-01	3.70E-01	1.50E-01	2.50E+01	3.70E-01	RME EPC is max detect	4 of 4
Boron	1.96E+00	2.42E+00	8.30E-01		2.42E+00	RME EPC is max detect	4 of 4
Chromium	1.49E-02	3.70E-02	2.00E-02		3.70E-02	RME EPC is max detect	2 of 4
Chromium VI	3.13E-03	8.00E-03	8.00E-03		8.00E-03	RME EPC is max detect	1 of 4
Copper	6.38E-03	1.10E-02	9.50E-03		1.10E-02	RME EPC is max detect	2 of 4
Iron	6.45E-01	1.08E+00	1.90E-01		1.08E+00	RME EPC is max detect	4 of 4
Lithium	1.89E-01	2.50E-01	5.70E-02		2.50E-01	RME EPC is max detect	4 of 4
Manganese	1.37E-01	3.40E-01	1.80E-02		3.40E-01	RME EPC is max detect	4 of 4
Mercury	3.75E-05	7.00E-05	4.00E-05		7.00E-05	RME EPC is max detect	2 of 4
Molybdenum	9.30E-03	1.50E-02	5.60E-03		1.50E-02	RME EPC is max detect	3 of 4
Nickel	1.10E-03	2.20E-03	1.20E-03		2.20E-03	RME EPC is max detect	2 of 4
Strontium	5.27E+00	6.64E+00	1.87E+00		6.64E+00	RME EPC is max detect	4 of 4
Titanium	6.40E-03	9.80E-03	2.40E-03		9.80E-03	RME EPC is max detect	4 of 4
Zinc	7.30E-03	2.20E-02	2.20E-02		2.20E-02	RME EPC is max detect	1 of 4

^{*}The maximum detected value is sometimes lower than the average since 1/2 of the reporting limit was used as a proxy value when it was not detected, and because J flag data were used in the risk assessment.

⁺ Chemicals of interest are any chemical measured in at least one sample.

^{(1) -} From Table 3-2 of TCEQ, 2006 and only the TCEQ Ecological Benchmarks for Water without the "dissolved" notation were included in the table.

TABLE 13 EXPOSURE POINT CONCENTRATION (mg/L) POND SURFACE WATER (TOTAL)

				TCEQ Ecological			
				Benchmark for	RME	Statistic	# of Detects/#
Chemicals of Interest ⁺	Average	Max Detection	Min Detection	Water (1)	EPC	Used	of Samples
4-Chloroaniline	2.79E-04	8.23E-04	8.23E-04	1.29E-01 ⁽²⁾	8.00E-04	RME EPC is max detect	1 of 6
Aluminum	9.13E-01	2.22E+00	4.10E-01		2.22E+00	RME EPC is max detect	5 of 6
Antimony	3.82E-03	7.60E-03	3.00E-03		7.60E-03	RME EPC is max detect	3 of 6
Arsenic	5.40E-03	1.30E-02	1.20E-02		1.30E-02	RME EPC is max detect	2 of 6
Barium	1.45E-01	1.90E-01	1.30E-01	2.50E+01	1.90E-01	RME EPC is max detect	6 of 6
Benzo(a)pyrene	1.12E-04	3.48E-04	3.48E-04	3.00E-01 (3)	3.00E-04	RME EPC is max detect	1 of 6
Benzo(b)fluoranthene	4.03E-04	1.81E-03	1.81E-03	3.00E-01 (3)	1.80E-03	RME EPC is max detect	1 of 6
Benzo(g,h,i)perylene	3.71E-04	1.73E-03	1.73E-03	3.00E-01 (3)	1.70E-03	RME EPC is max detect	1 of 6
Benzo(k)fluoranthene	2.06E-04	5.42E-04	5.42E-04	3.00E-01 (3)	5.00E-04	RME EPC is max detect	1 of 6
Bis(2-ethylhexyl)phthalate	1.92E-02	4.00E-02	2.90E-02	3.60E-01 (2)	4.00E-02	RME EPC is max detect	3 of 6
Boron	2.97E+00	3.52E+00	2.45E+00		3.52E+00	RME EPC is max detect	6 of 6
Chromium	8.50E-04	1.50E-03	1.50E-03		1.50E-03	RME EPC is max detect	1 of 6
Chromium VI	8.50E-03	1.60E-02	1.50E-02		1.60E-02	RME EPC is max detect	2 of 6
Chrysene	2.48E-04	7.10E-04	7.10E-04	3.00E-01 (3)	7.00E-04	RME EPC is max detect	1 of 6
Cobalt	9.12E-04	3.20E-03	5.20E-04		3.20E-03	RME EPC is max detect	2 of 6
Dibenz(a,h)anthracene	6.26E-04	3.04E-03	3.04E-03	3.00E-01 (3)	3.00E-03	RME EPC is max detect	1 of 6
Di-n-butyl Phthalate	3.12E-03	3.81E-03	1.07E-03	5.00E-03	3.80E-03	RME EPC is max detect	5 of 6
Indeno(1,2,3-cd)pyrene	6.73E-04	3.44E-03	3.44E-03	3.00E-01 (3)	3.40E-03	RME EPC is max detect	1 of 6
Iron	2.27E+00	6.67E+00	5.20E-01		6.67E+00	RME EPC is max detect	6 of 6
Lead	2.63E-03	1.10E-02	1.10E-02		1.10E-02	RME EPC is max detect	1 of 6
Lithium	1.16E-01	1.60E-01	6.70E-02		1.60E-01	RME EPC is max detect	6 of 6
Manganese	6.37E-01	1.44E+00	8.50E-02		1.44E+00	RME EPC is max detect	6 of 6
Molybdenum	8.73E-03	1.80E-02	1.30E-02		1.80E-02	RME EPC is max detect	3 of 6
Nickel	4.60E-03	7.90E-03	3.00E-03		7.90E-03	RME EPC is max detect	6 of 6
Selenium	4.26E-03	9.80E-03	9.80E-03	1.36E-01	9.80E-03	RME EPC is max detect	1 of 6
Silver	9.30E-03	1.50E-02	3.70E-03		1.50E-02	RME EPC is max detect	6 of 6
Strontium	4.47E+00	7.19E+00	1.77E+00		7.19E+00	RME EPC is max detect	6 of 6
Thallium	2.86E-03	7.70E-03	6.20E-03	2.13E-02	7.70E-03	RME EPC is max detect	2 of 6
Titanium	1.90E-02	4.40E-02	2.10E-03		4.40E-02	RME EPC is max detect	6 of 6
Vanadium	3.20E-03	8.40E-03	4.30E-03		8.40E-03	RME EPC is max detect	3 of 6
Zinc	1.20E-01	6.30E-01	2.70E-02		6.30E-01	RME EPC is max detect	3 of 6
LPAHs							
HPAHs	2.64E-03	1.16E-02	1.16E-02	3.00E-01 (3)	1.14E-02		
Total PAHs	2.64E-03	2.64E-03	2.64E-03	3.00E-01 (3)	2.64E-03		

- ⁺ Chemicals of interest are any chemical measured in at least one sample.
 (1) From Table 3-2 of TCEQ, 2006 and only the TCEQ Ecological Benchmarks for Water without the "dissolved" notation were included in the table.
- (2) Buchman, 2008.
- (3) Buchman, 2008 acute value for chemical class.

TABLE 14
EXPOSURE POINT CONCENTRATION (mg/L)
INTRACOASTAL WATERWAY SURFACE WATER (DISSOLVED METALS)

Chemicals of Interest ⁺	Average	Max Detection	Min Detection	TCEQ Ecological Benchmark for Water ⁽¹⁾	RME EPC	Statistic Used	# of Detects/# of Samples
Aluminum	6.48E-02	4.70E-02	4.70E-02		4.70E-02	RME EPC is max detect	1 of 4
Barium	2.63E-02	2.80E-02	2.30E-02	2.50E+01	2.80E-02	RME EPC is max detect	4 of 4
Boron	4.79E+00	4.99E+00	4.30E+00	1.20E+00 ⁽²⁾	4.99E+00	RME EPC is max detect	4 of 4
Lithium	2.10E-01	2.20E-01	2.00E-01		2.20E-01	RME EPC is max detect	4 of 4
Manganese	4.85E-03	6.00E-03	2.50E-03	1.00E-01 ⁽²⁾	6.00E-03	RME EPC is max detect	4 of 4
Nickel	2.63E-03	3.30E-03	1.30E-03	1.31E-02	3.30E-03	RME EPC is max detect	4 of 4
Selenium	4.25E-02	6.30E-02	2.80E-02	1.36E-01	6.30E-02	RME EPC is max detect	4 of 4
Strontium	8.04E+00	8.47E+00	7.36E+00		8.47E+00	RME EPC is max detect	4 of 4
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- (1) From Table 3-2 of TCEQ.
- (2) Buchman, 2008.

⁺ Chemicals of interest are any chemical measured in at least one sample.

TABLE 15
EXPOSURE POINT CONCENTRATION (mg/L)
INTRACOASTAL WATERWAY BACKGROUND SURFACE WATER (DISSOLVED METALS)

Chemicals of Interest ⁺	Average	Max Detection	Min Detection	TCEQ Ecological Benchmark for Water	RME EPC	Statistic Used	# of Detects/# of Samples
Barium	1.65E-02	1.90E-02	1.20E-02	2.50E+01	1.90E-02	RME EPC is max detect	4 of 4
Boron	3.98E+00	4.33E+00	3.04E+00	1.20E+00 (2)	4.33E+00	RME EPC is max detect	4 of 4
Chromium	7.38E-02	7.80E-02	6.40E-02	1.03E-01	7.80E-02	RME EPC is max detect	4 of 4
Iron	5.40E-02	6.00E-02	6.00E-02	5.00E-02 (2)	6.00E-02	RME EPC is max detect	1 of 4
Lithium	2.90E-01	3.90E-01	1.90E-01		3.90E-01	RME EPC is max detect	4 of 4
Manganese	1.53E-02	1.80E-02	1.10E-02	1.00E-01 ⁽²⁾	1.80E-02	RME EPC is max detect	4 of 4
Molybdenum	3.68E-03	3.90E-03	3.90E-03	2.30E-02 (2)	3.90E-03	RME EPC is max detect	1 of 4
Silver	5.23E-03	5.80E-03	4.30E-03	1.90E-04	5.80E-03	RME EPC is max detect	4 of 4
Strontium	6.84E+00	7.46E+00	5.20E+00		7.46E+00	RME EPC is max detect	4 of 4
Vanadium	1.23E-02	1.50E-02	9.30E-03	5.00E-02 ⁽²⁾	1.50E-02	RME EPC is max detect	4 of 4

- ⁺ Chemicals of interest are any chemical measured in at least one sample.
- (1) From Table 3-2 of TCEQ.
- (2) Buchman, 2008.

TABLE 16
EXPOSURE POINT CONCENTRATION (mg/L)
WETLAND SURFACE WATER (DISSOLVED METALS)

Chemicals of Interest ⁺	Average	Max Detection	Min Detection	TCEQ Ecological Benchmark for Water ⁽¹⁾	RME EPC	Statistic Used	# of Detects/# of Samples
Barium	3.20E-04	3.50E-01	1.40E-01	2.50E+01	3.50E-01	RME EPC is max detect	4 of 4
Boron	2.70E-02	2.75E+00	8.50E-01	1.20E+00 (2)	2.75E+00	RME EPC is max detect	4 of 4
Chromium	1.20E-03	3.70E-02	1.90E-02	1.03E-01	3.70E-02	RME EPC is max detect	2 of 4
Copper	2.50E-03	1.10E-02	5.30E-03	3.60E-03	1.10E-02	RME EPC is max detect	3 of 4
Lithium	3.50E-03	2.80E-01	5.70E-02		2.80E-01	RME EPC is max detect	4 of 4
Manganese	6.00E-04	3.30E-01	2.50E-02	1.00E-01 ⁽²⁾	3.30E-01	RME EPC is max detect	4 of 4
Molybdenum	2.70E-03	1.70E-02	5.40E-03	2.30E-02 (2)	1.70E-02	RME EPC is max detect	3 of 4
Nickel	4.50E-04	1.30E-03	4.90E-04	1.31E-02	1.30E-03	RME EPC is max detect	2 of 4
Strontium	9.40E-04	7.01E+00	1.89E+00		7.01E+00	RME EPC is max detect	4 of 4

⁺ Chemicals of interest are any chemical measured in at least one sample.

⁽¹⁾ From Table 3-2 of TCEQ, 2006.

^{(2) -} Buchman, 2008.

TABLE 17
EXPOSURE POINT CONCENTRATION (mg/L)
POND SURFACE WATER (DISSOLVED METALS)

Chemicals of Interest ⁺	Average	Max Detection	Min Detection	TCEQ Ecological Benchmark for Water ⁽¹⁾	RME EPC	Statistic Used	# of Detects/# of Samples
Antimony	3.50E-03	6.30E-03	3.10E-03	5.00E-01 ⁽²⁾		RME EPC is max detect	3 of 6
Barium	1.25E-01	1.30E-01	1.20E-01	25		RME EPC is max detect	6 of 6
Boron	2.79E+00	3.33E+00	2.36E+00	1.20E+00 ⁽²⁾		RME EPC is max detect	6 of 6
Lithium	1.45E-01	2.20E-01	8.00E-02			RME EPC is max detect	6 of 6
Manganese	4.65E-01	1.06E+00	6.60E-02	1.00E-01 ⁽²⁾		RME EPC is max detect	6 of 6
Molybdenum	1.01E-02	1.90E-02	1.80E-02	2.30E-02 (2)		RME EPC is max detect	3 of 6
Nickel	1.43E-03	2.60E-03	1.90E-03	0.131		RME EPC is max detect	3 of 6
Silver	1.83E-03	2.90E-03	9.40E-04	0.00019		RME EPC is max detect	6 of 6
Strontium	4.32E+00	6.97E+00	1.78E+00			RME EPC is max detect	6 of 6
Thallium	1.53E-03	3.20E-03	1.40E-03	0.0213		RME EPC is max detect	3 of 6
Vanadium	7.58E-04	2.10E-03	2.10E-03	5.00E-02 ⁽²⁾		RME EPC is max detect	1 of 6

⁺ Chemicals of interest are any chemical measured in at least one sample.

⁽¹⁾ From Table 3-2 of TCEQ, 2006.

^{(2) -} Buchman, 2008.

TABLE 18
TERRESTRIAL HABITAT ASSESSMENT AND MEASUREMENT ENDPOINTS

Receptor Group	Receptor of Potential Concern	Assessment Endpoint for SLERA	Ecological Risk Question	Testable Hypothesis for SLERA	Measurement Endpoint
Invertebrates	Earthworm	Protection of soil invertebrate community from uptake and direct toxic effects on detritivore abundance, diversity, productivity due to chemicals in soil.	Does exposure to chemicals in soil adversely affect the abundance, diversity, productivity, and function? Do soil-to-earthworm BAFs suggest uptake of chemicals?	Average and 95%UCL soil concentrations do not exceed screening criteria.	1) Comparison of average and 95% UCL concentration for each compound measured at the Site in soil to receptor-specific screening level based on NOAELs available in the literature. 2) Evaluate compound's ability to bioconcentrate. 3) Evaluate likelihood of localized effects (maximum concentration).
Small mammalian herbivore	Deer mouse	Protection of the small mammal survival, growth, and reproduction due to uptake of chemicals in soil.	Does exposure to chemicals in soil adversely affect the survival, growth, and reproduction? 2) Do soil-to- mammal BAFs suggest uptake of chemicals?	Average and 95% UCL soil concentrations do not exceed screening criteria.	1) Comparison of average and 95% UCL concentration for each compound measured at the Site in soil to receptor-specific screening level based on NOAELs available in the literature. 2) Evaluate compound's ability to bioconcentrate.
Mammalian predator	Coyote	Protection of the mammalian predator survival, growth, and reproduction due to the uptake of chemicals in prey items.	Does exposure to chemicals in soil adversely affect the survival, growth, and reproduction? 2) Do soil-to- mammal BAFs suggest uptake of chemicals?	Average and 95% UCL soil concentrations do not exceed screening criteria.	1) Comparison of average and 95% UCL concentration for each compound measured at the Site in soil to receptor-specific screening level based on NOAELs available in the literature. 2) Evaluate compound's ability to bioconcentrate.
Reptilian predator	Rat snake	Protection of the reptilian predator survival, growth, and reproduction due to the uptake of chemicals in prey items.	Does exposure to chemicals in soil adversely affect the survival, growth, and reproduction? 2) Do soil-to- mammal BAFs suggest uptake of chemicals?	Average and 95% UCL soil concentrations do not exceed screening criteria.	1) Comparison of average and 95% UCL concentration for each compound measured at the Site in soil to receptor-specific screening level based on NOAELs available in the literature. 2) Evaluate compound's ability to bioconcentrate.
Avian herbivore/omnivore	American robin	Protection of the omnivorous avian survival, growth, and reproduction due to uptake of chemicals in soil.	Does exposure to chemicals in soil adversely affect the survival, growth, and reproduction? 2) Do soil-to- avian omnivore BAFs suggest uptake of chemicals?	Average and 95% UCL soil concentrations do not exceed screening criteria.	1) Comparison of average and 95% UCL concentration for each compound measured at the Site in soil to receptor-specific screening level based on NOAELs available in the literature. 2) Evaluate compound's ability to bioconcentrate.
Avian predator	Red-tailed hawk	community population abundance,	Does exposure to chemicals in soil adversely affect the survival, growth, and reproduction? 2) Do soil-to- higher trophic level BAFs suggest uptake of chemicals and/or bioaccumulation?	soil concentrations do	1) Comparison of average and 95% UCL concentration for each compound measured at the Site in soil to receptor-specific screening level based on NOAELs available in the literature. 2) Evaluate compound's ability to bioconcentrate.

SLERA -- Screening-Level Ecological Risk Assessment
BAF -- biota accumulation factor
BSAF -- biota to sediment accumulation factor

NOAEL -- no observable adverse effects level

95% UCL -- 95 percent upper confidence limit on the mean

TABLE 19
ESTUARINE WETLAND AND AQUATIC HABITAT ASSESSMENT AND MEASUREMENT ENDPOINTS

Receptor Group	Receptor of Potential Concern	Assessment Endpoint for SLERA	Ecological Risk Question	Testable Hypothesis for SLERA	Measurement Endpoint
Benthos and zooplankton	Polychaetes	Protection of benthic invertebrate community from uptake and direct toxic effects on abundance, diversity, and productivity due to chemicals in sediment.	1) Does exposure to chemicals in sediment adversely affect the abundance, diversity, productivity, and function? 2) Do sediment-to-biota BSAFs suggest uptake of chemicals?	Average and 95% UCL sediment concentrations do not exceed screening criteria.	Comparison of average and 95% UCL concentration for each compound measured at the Site in sediment to receptor-specific screening level based on NOAELs available in the literature. 2) Evaluate compound's ability to bioconcentrate. Sediment Sedime
Fish and shellfish	Fiddler crab	Protection of invertebrate community abundance, diversity, and productivity due to uptake of chemicals in sediment.	Does exposure to chemical in sediment adversely affect the survival, reproduction, or growth? 2) Do sediment-to-biota BSAFs suggest uptake of chemicals?	Average and 95% UCL sediment concentrations do not exceed screening criteria.	Comparison of average and 95% UCL concentration for each compound measured at the Site in sediment to receptor-specific screening level based on NOAELs available in the literature. 2) Evaluate compound's ability to bioconcentrate.
	Killifish	Protection of localized herbivorous fish survival, growth, and reproduction due to uptake of chemicals in sediment and biota.	Does exposure to chemical in sediment adversely affect the survival, reproduction, or growth? 2) Do sediment-to-biota BSAFs suggest uptake of chemicals?	Average and 95% UCL sediment concentrations do not exceed screening criteria.	Comparison of average and 95% UCL concentration for each compound measured at the Site in sediment to receptor-specific screening level based on NOAELs available in the literature. 2) Evaluate compound's ability to bioconcentrate.
Carnivorous fish	Black drum	Protection of carnivorous fish survival, growth, and reproduction due to uptake of chemicals in sediment and prey items.	1) Does exposure to chemicals in sediment and/or prey items adversely affect the survival, growth, and reproduction of a first order carnivorous fish? 2) Do sediment-to-biota BSAFs suggest uptake of chemicals and/or bioaccumulation?	Average and 95% UCL sediment concentrations do not exceed screening criteria.	Comparison of average and 95% UCL concentration for each compound measured at the Site in sediment to receptor-specific screening level based on NOAELs available in the literature. 2) Evaluate compound's ability to bioconcentrate.
	Spotted seatrout	Protection of carnivorous fish survival, growth, and reproduction due to uptake of chemicals in prey items.	Does exposure to chemicals in prey items adversely affect the survival, growth, and reproduction of a second order carnivorous fish? 2) Does sediment-to-biota BSAF suggest bioaccumulation?	Average and 95% UCL sediment concentrations do not exceed screening criteria.	Comparison of average and 95% UCL concentration for each compound measured at the Site in sediment to receptor-specific screening level based on NOAELs available in the literature. 2) Evaluate compound's ability to bioconcentrate.
Avian predator	Sandpiper	Protection of carnivorous avian survival, growth, and reproduction due to uptake of chemicals in sediment and prey items.	Does exposure to chemicals in sediment and/or prey items adversely affect the survival, growth,and reproduction of a first order carnivore? 2) Does sediment-to-biota BSAF suggestion uptake or bioaccumulation?	Average and 95% UCL sediment concentrations do not exceed screening criteria.	Comparison of average and 95% UCL concentration for each compound measured at the Site in sediment to receptor-specific screening level based on NOAELs available in the literature. 2) Evaluate compound's ability to bioconcentrate.
	Green heron	Protection of carnivorous avian survival, growth and reproduction due to uptake of chemicals in prey items.	Does exposure to chemicals in prey items adversely affect the survival, growth, and reproduction of a second order carnivore? 2) Does sediment-to-biota BSAF suggestion bioaccumulation?	Average and 95% UCL sediment concentrations do not exceed screening criteria.	Comparison of average and 95% UCL concentration for each compound measured at the Site in sediment to receptor-specific screening level based on NOAELs available in the literature. 2) Evaluate compound's ability to bioconcentrate.

SLERA -- Screening-Level Ecological Risk Assessment

BAF -- biota accumulation factor

BSAF -- biota to sediment accumulation factor

NOAEL -- no observable adverse effects level

95% UCL -- 95 percent upper confidence limit on the mean

TABLE 20 BACKGROUND COMPARISONS

CHEMICAL OF INTEREST*	SOUTH SURFACE SOIL	SOUTH SOIL	NORTH SURFACE SOIL	NORTH SOIL	ICWW SEDIMENT	WETLANDS SEDIMENT	POND SEDIMENT
Aluminum	NA	NA	NA	NA	Yes*	NA NA	NA
Antimony	No	No	No	No	Yes*	No	No
Arsenic	No	No	No	No	Yes*	No	Yes*
Barium	No	No	Yes*	Yes*	No	Yes*	No
Beryllium	NA	NA	NA	NA	Yes*	NA	NA
Boron	NA	NA	NA	NA	Yes*	NA	NA
Cadmium	No	No	Yes	Yes*	NA	Yes	Yes
Chromium	No	No	No	No	NA	No	No
Cobalt	NA	NA	NA NA	NA	Yes*	NA NA	NA
Copper	Yes	No	No	No	No	No	No
ron	NA NA	NA	NA NA	NA	No	NA	No
_ead	Yes	No	No	No	No	No	Yes
_ithium	Yes*	Yes*	Yes*	No	Yes*	No	No
Manganese	Yes*	Yes*	No	No	No	No	Yes
Mercury	No	No	Yes*	Yes*	No	No	NA NA
Molybdenum	Yes	No	No	No	No	No	Yes*
Nickel	NA NA	NA NA	NA NA	NA NA	No	NA NA	NA
vickei Strontium	NA NA	NA NA	NA NA	NA NA	Yes*	NA NA	NA NA
Fitanium	NA NA	NA NA	NA NA	NA NA	Yes*	NA NA	NA NA
/anadium	NA NA	NA NA	NA NA	NA NA	Yes*	NA NA	NA NA
Zinc	Yes	No No	No	NA No	No	No No	No

NA - No analysis was performed for compound in background.

 $^{^{(1)}}$ Detailed statistical procedures are outlined in Section 2.7 and calculations are provided in Appendix B.

^{*} Statistical difference is due to background being greater than site.

⁺ Chemicals of interest are any chemical measured in at least one sample.

TABLE 21
COPECS IDENTIFIED IN STEP 1 AND QUANTITATIVELY EVALUATED IN STEP 2*

SOUTH AREA SOIL	NORTH AREA SOIL	BACKGROUND AREA SOIL	ICWW SEDIMENT	BACKGROUND ICWW SEDIMENT	WETLANDS SEDIMENT	POND SEDIMENT
2-Methylnaphthalene 4,4-DDD 4,4'-DDE 4,4'-DDT Acenaphthene Acenaphthylene Anthracene Aroclor-1254 Benzo(a)anthracene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Boron Chrysene Cobalt Copper Dibenz(a,h)anthracene Dieldrin Endrin Aldehyde Endrin Ketone Fluoranthene Fluorene gamma-Chlordane Indeno(1,2,3-cd)pyrene Lead Molybdenum Naphthalene Nickel Phenanthrene Pyrene Vanadium Zinc LPAH HPAH TOTAL PAHs	2-Methylnaphthalene 4,4'-DDE 4,4'-DDT Acenaphthene Acenaphthylene Anthracene Aroclor-1254 Benzo(a)anthracene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Boron Cadmium Chrysene Dibenz(a,h)anthracene Dieldrin Endrin Endrin Ketone Fluoranthene Fluoranthene Fluorene Indeno(1,2,3-cd)pyrene Iron Naphthalene Nickel Phenanthrene Pyrene Vanadium LPAH HPAH TOTAL PAHs	Antimony Arsenic Barium Benzo(a)anthracene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Cadmium Chromium Chrysene Copper Fluoranthene Indeno(1,2,3-cd)pyrene Lead Lithium Manganese Mercury Molybdenum Phenanthrene Pyrene Zinc LPAH HPAH TOTAL PAHs	2-Methylnaphthalene 4,4'-DDT Acenaphthylene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluorene gamma-Chlordane Hexachlorobenzene Indeno(1,2,3-cd)pyrene Phenanthrene Pyrene LPAH HPAH TOTAL PAHs	4,4'-DDT Arsenic Benzo(b)fluoranthene Copper Mercury Nickel Zinc LPAH HPAH TOTAL PAHS	2-Methylnaphthalene 4,4'-DDT Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(g,h,i)perylene Benzo(k)fluoranthene Cadmium Chrysene Dibenz(a,h)anthracene Endosulfan Sulfate Endrin Aldehyde Endrin Ketone Fluoranthene Fluoranthene Fluorene gamma-Chlordane Indeno(1,2,3-cd)pyrene Nickel Phenanthrene Pyrene LPAH HPAH TOTAL PAHs	4,4'-DDD 4,4'-DDT Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Cadmium Chrysene Nickel Phenanthrene Pyrene LPAH HPAH TOTAL PAHs

^{*} Surface water is not included in the table because they were evaluated differently given the lack of screening criteria and toxicity reference values.

TABLE 22 TERRESTRIAL EXPOSURE PARAMETERS

PARAMETER	Deer Mouse		Coyote		Rat Snake		American Robin		Red-Tailed Hawk	
PARAMETER	Value	Reference	Value	Reference	Value	Reference	Value	Reference	Value	Reference
Ingestion Rate for soil (kg/day)	2.13E-05	EPA, 1999*	NA		1.45E-04	EPA, 1993 ⁺	1.14E-03	EPA, 1999*	NA	
Bioavailability Factor in soil (unitless)	1	EPA, 1997	1	EPA, 1997	1	EPA, 1997	1	EPA, 1997	1	EPA, 1997
Area Use Factor (unitless)	1	EPA, 1997	1	EPA, 1997	1	EPA, 1997	1	EPA, 1997	1	EPA, 1997
Body Weight (kg)	1.48E-02	EPA, 1999	1.55E+01	EPA, 1993	1.39E-01	EPA, 1993	8.00E-02	EPA, 1999	9.60E-01	EPA, 1999
Ingestion Rate for food (kg/day)	8.87E-03	EPA, 1999*	1.55	EPA, 1993*	2.78E-03	EPA, 1993*	3.52E-02	EPA, 1999*	1.78E-01	EPA, 1999*
Dietary Fraction for arthropods (unitless)	5.60E-01	EPA, 1993	NA		2.00E-01	EPA, 1993	4.60E-01	EPA, 1993	NA	
Dietary Fraction for plants, etc. (unitless)	4.40E-01	EPA, 1993	NA		NA		8.00E-02	EPA, 1993	NA	
Dietary Fraction of small mammals (unitless)	NA		7.50E-01	EPA, 1993	6.20E-01	EPA, 1993	NA		7.85E-01	EPA, 1993
Dietary Fraction of birds (unitless)	NA		2.50E-01	EPA, 1993	1.80E-01	EPA, 1993	NA		3.80E-01	EPA, 1993
Dietary Fraction of earthworms (unitless)	NA		NA	· ·	NA		4.60E-01	EPA, 1993	NA	
, , ,										

* Normalized for body weight. NA - not applicable.

^{*}Soil ingestion was assumed to be 5.2% of dietary intake per other reptiles listed in EPA, 1993.

TABLE 23
ESTUARINE WETLAND AND AQUATIC EXPOSURE PARAMETERS

PARAMETER	Fiddler Crab		Killifish		Black Drum		Spotted	Spotted Seatrout	Sandpiper		Gree	n Heron
PARAWETER	Value	Reference	Value	Reference	Value	Reference	Value	Reference	Value	Reference	Value	Reference
Ingestion Rate for soil (kg/day)	1.16E-08	Cammen, 1979			2.60E-03	Neill, 1998+	NA		2.10E-02	EPA, 1993	NA	
Bioavailability Factor in soil (unitless)	1	EPA, 1997	1	EPA, 1997	1	EPA, 1997	1	EPA, 1997	1	EPA, 1997	1	EPA, 1997
Area Use Factor (unitless)	1	EPA, 1997	1	EPA, 1997	1	EPA, 1997	1	EPA, 1997	1	EPA, 1997	1	EPA, 1997
Body Weight (kg)	9.00E-03	*			1.24	Alcoa, 2000	1.00E+00	TPWD, 2009++	2.15E-01	Dunning, 1993	3.75E-01	Dunning, 1993
Ingestion Rate for food (kg/day)	1.16E-08	Cammen, 1979			2.60E-02	Neill, 1998	2.60E-02	Prof. Judg.**	1.08E-01	EPA, 1993	1.13E-01	EPA, 1993
Dietary Fraction for invertebrates (unitless)	1.00E+00	TPWD, 2009**			NA		NA		NA		NA	
Dietary Fraction for worms (unitless)	NA				3.33E-01	Prof. Judg.**	NA		6.00E-01	Prof. Judg.**	NA	
Dietary Fraction of crabs (unitless)	NA				3.33E-01	Prof. Judg.**	NA		4.00E-01	Prof. Judg.**	2.50E-01	Kent, 1986
Dietary Fraction of fish (unitless)	NA				3.33E-01	Prof. Judg.**	1.00E+00	TPWD, 2009++	NA		7.50E-01	Kent, 1986
, , , , , , , , , , , , , , , , , , , ,								,				' ' ' ' '

NA - not applicable.

^{**} Estimated based on width/length equation for fiddler crabs.

**Because of the lack of information on dietary fractions for different species, best professional judgment was used as the basis for the assumption.

^{*} Sediment ingestion was assumed to be 10% of dietary intake.

⁺⁺ http://www.tpwd.state.tx.us

TABLE 24 ECOLOGICAL HAZARD QUOTIENTS EXCEEDING ONE FOR THE SOUTH AREA

MEDIA	RECEPTOR	CHEMICAL OF POTENTIAL ECOLOGICAL CONCERN	TOXICITY VALUE	AVERAGE HQ	RME HQ
Soil	Earthworm	4,4'-DDD	NOAEL	1.78E-01	1.16E+00
		Zinc	NOAEL	3.62E+00	6.79E+00
	Deer Mouse	Aroclor-1254	NOAEL	5.07E-01	1.83E+00
		Copper	NOAEL	5.21E-01	1.01E+00
		Zinc	NOAEL	1.09E+00	2.05E+00
	Coyote	None	NOAEL		
	Rat Snake	None	NOAEL		
	American Robin	Aroclor-1254	NOAEL	5.32E-01	1.94E+00
		Lead	NOAEL	1.06E+00	1.61E+00
		Zinc	NOAEL	1.62E+00	2.95E+00
	Red-Tailed Hawk	None	NOAEL		
	Earthworm	Zinc	LOAEL	8.06E-01	1.52E+00
	Deer Mouse	None	LOAEL		
	Coyote	None	LOAEL		
	Rat Snake	None	LOAEL		
	American Robin	None	LOAEL		
	Red-Tailed Hawk	None	LOAEL		
Intracoastal Waterway	Capitella Capitata	4,4'-DDT	ERL	4.11E-01	2.30E+00
Sediment		Benzo(a)anthracene	ERL	1.74E-01	1.15E+00
		Dibenz(a,h)anthracene	ERL	6.86E-01	3.23E+00
		Fluoranthene	ERL	1.88E-01	1.02E+00
		Fluorene	ERL	6.42E-01	1.28E+00
		gamma-Chlordane	ERL	6.26E-01	1.14E+00
		Hexachlorobenzene	AET	1.67E+00	2.10E+00
		Phenanthrene	ERL	3.11E-01	1.62E+00
		Pyrene	ERL	1.95E-01	1.02E+00
		HPAH	ERL	4.54E-01	2.22E+00
		Total PAHs	ERL	2.24E-01	1.06E+00
	Capitella Capitata	None	ERM		
	Fiddler Crab	None	NOAEL		
	Black Drum	None	NOAEL		
	Spotted Seatrout	None	NOAEL		
	Sandpiper	None	NOAEL		
	Green Heron	None	NOAEL		

Notes:
AET - apparent effects threshold
ERL - effects range low
ERM - effects range medium
HQ - hazard quotient
LOAEL - lowest observable adverse effects level
NOAEL - no observable adverse effects level
RME - reasonable maximum exposure

TABLE 25
ECOLOGICAL HAZARD QUOTIENTS EXCEEDING ONE FOR THE NORTH AREA

MEDIA	RECEPTOR	CHEMICAL OF POTENTIAL ECOLOGICAL CONCERN	TOXICITY VALUE	AVERAGE HQ	RME HQ
Soil	Earthworm Deer Mouse Coyote	None Dieldrin None	NOAEL NOAEL NOAEL	1.60E-01	1.12E+00
	Rat Snake American Robin	None None	NOAEL NOAEL		
	Red-Tailed Hawk Earthworm	None None	NOAEL LOAEL		
	Deer Mouse	None	LOAEL		
	Coyote	None	LOAEL		
	Rat Snake	None	LOAEL		
	American Robin Red-Tailed Hawk	None None	LOAEL LOAEL		
Wetlands Sediment	Capitella Capitata	2-Methylnaphthalene	ERL	2.84E-01	1.02E+00
		4,4'-DDT	ERL	9.07E-01	2.12E+00
		Acenaphthylene Acenaphthene	ERL ERL	1.02E+00 7.02E-01	3.93E+00 3.68E+00
		Anthracene	ERL	3.92E-01	1.57E+00
		Benzo(a)anthracene	ERL	2.36E-01	1.19E+00
		Benzo(a)pyrene	ERL	2.37E-01	1.09E+00
		Benzo(g,h,i)perylene	AET	2.90E-01	1.11E+00
		Chrysene	ERL	5.55E-01	3.17E+00
		Dibenz(a,h)anthracene	ERL	3.14E+00	1.70E+01
		Endrin Aldehyde	ERL	3.90E-01	1.10E+00
		Fluoranthene	ERL	1.77E-01	1.04E+00
		Fluorene	ERL	9.63E-01	3.29E+00
		gamma-Chlordane	ERL	7.76E-01	1.57E+00
		Indeno(1,2,3-cd)pyrene	AET ERL	3.28E-01	1.28E+00 1.77E+00
		Phenanthrene LPAH	ERL ERL	3.16E-01 3.58E-01	1.77E+00 1.66E+00
		HPAH	ERL	8.10E-01	3.83E+00
		Total PAHs	ERL	3.91E-01	1.85E+00
	Fiddler Crab	None	NOAEL	0.0.20.	
	Sandpiper	None	NOAEL		
	Green Heron	None	NOAEL		
	Capitella Capitata	Dibenz(a,h)anthracene	ERM	7.65E-01	4.15E+00
	Fiddler Crab	None	LOAEL		
	Sandpiper	None	LOAEL		
	Green Heron	None	LOAEL		
Pond Sediment	Capitella Capitata	4,4-DDT*	ERL	4.16E+00	1.47E+00
	Fiddler Crab	None	NOAEL		
	Sandpiper	Nickel	NOAEL	8.98E-01	1.13E+00
	Green Heron	None	NOAEL		
	Capitella Capitata	None	ERM		
	Fiddler Crab	None	LOAEL		
	Sandpiper Green Heron	None None	LOAEL LOAEL		
	Green Heron	INONE	LUAEL		

* Average HQ is higher than RME HQ because the RME concentration was the maximum detected while the average concentration calculation contained 1/2 sample quantitation limits which sometimes were higher than the max. detect.

ERL - effects range low

ERM - effects range medium

HQ - hazard quotient

LOAEL - lowest observable adverse effects level NOAEL - no observable adverse effects level

RME - reasonable maximum exposure

TABLE 26 ECOLOGICAL HAZARD QUOTIENTS EXCEEDING ONE FOR THE BACKGROUND AREAS

MEDIA	RECEPTOR	CHEMICAL OF POTENTIAL ECOLOGICAL CONCERN	TOXICITY VALUE	AVERAGE HQ	RME HQ
Soil	Earthworm	Barium	NOAEL	1.01E+00	1.52E+00
	Laranvonn	Zinc	NOAEL	2.06E+00	8.08E+00
	Deer Mouse	Antimony	NOAEL	9.76E-01	2.24E+00
	Door Modes	Barium	NOAEL	7.38E-01	1.11E+00
		Zinc	NOAEL	6.20E-01	2.43E+00
	Coyote	None	NOAEL	0.202 0 .	2.7.02.00
	Rat Snake	None	NOAEL		
	American Robin	Antimony	NOAEL	8.41E-01	1.93E+00
		Barium	NOAEL	6.98E-01	1.05E+00
		Zinc	NOAEL	9.00E-01	3.53E+00
	Red-Tailed Hawk	None	NOAEL		
	Earthworm	Barium	LOAEL	1.01E+00	1.52E+00
		Zinc	LOAEL	4.59E-01	1.80E+00
	Deer Mouse	None	LOAEL		
	Coyote	None	LOAEL		
	Rat Snake	None	LOAEL		
	American Robin	None	LOAEL		
	Red-Tailed Hawk	None	LOAEL		
Intracoastal Waterway	Capitella Capitata	None	NOAEL		
Sediment	Fiddler Crab	None	NOAEL		
	Black Drum	None	NOAEL		
	Spotted Seatrout	None	NOAEL		
	Sandpiper	None	NOAEL		
	Green Heron	None	NOAEL		

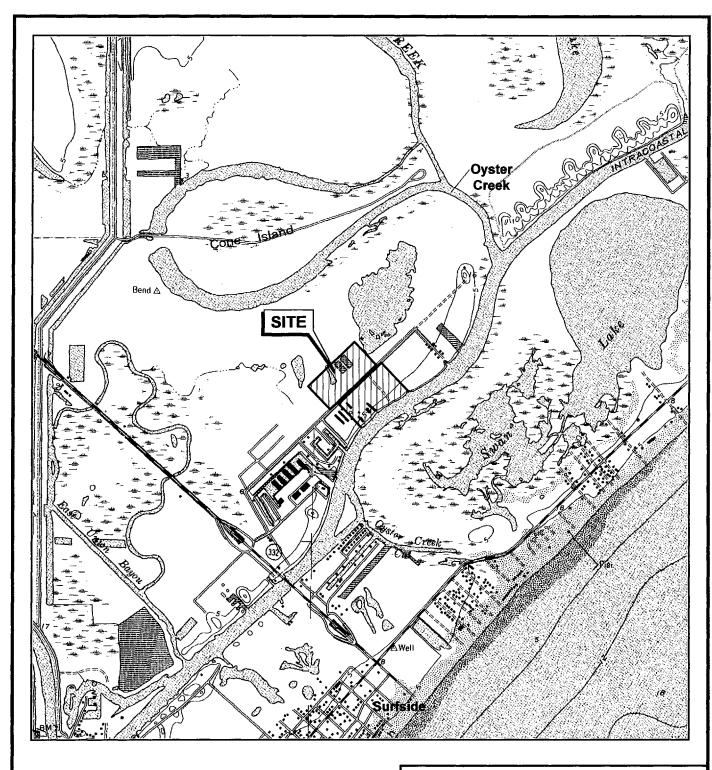
AET - apparent effects threshold HQ - hazard quotient

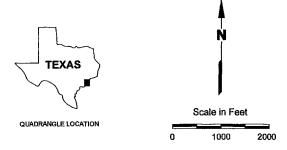
LOAEL - lowest observable adverse effects level NOAEL - no observable adverse effects level RME - reasonable maximum exposure

TABLE 27
SUMMARY OF SURFACE WATER DATA AND ECOLOGICAL BENCHMARKS

MEDIA	CHEMICAL OF POTENTIAL ECOLOGICAL CONCERN	MAX CONCENTRATION (mg/L)	ECO BENCHMARK (mg/L)	LC ₅₀ (mg/L)*
Intracoastal Waterway Surface Water	Boron (dissolved)	4.99	1.2	86.5
Intracoastal Waterway Surface Water Background Area	Boron (dissolved) 4,4'-DDT Iron (dissolved) Silver (dissolved)	4.33 0.000013 0.06 0.0058	1.2 0.000001 0.05 0.00019	86.5 0.00045 4 1.45
Wetland Area Surface Water	Acrolein Boron (dissolved) Copper (dissolved) Manganese (dissolved)	0.00929 2.75 0.011 0.33	0.005 1.2 0.0036 0.1	0.43 86.5 0.368 50
Pond Surface Water	Boron (dissolved) Manganese (dissolved) Silver (dissolved)	3.33 1.06 0.0029	1.2 0.1 0.00019	86.5 50 1.45

^{*} Additional discussion related to the LC50 concentration provided here can be found in Section 3.4.8 of the SLERA report. All values from EPA, 2009.





Source:
Base map taken from http://www.tnris.state.tx.us Freeport, Texas 7.5 min.
U.S.G.S. quadrangle, 1974.

GULFCO MARINE MAINTENANCE

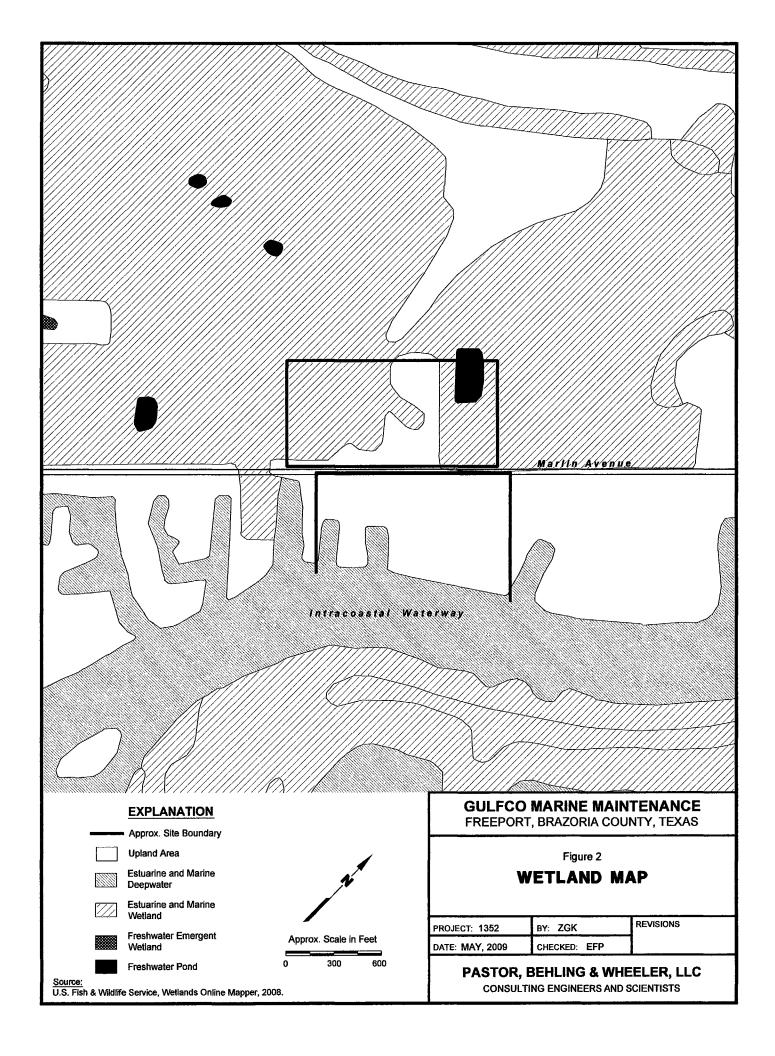
FREEPORT, BRAZORIA COUNTY, TEXAS

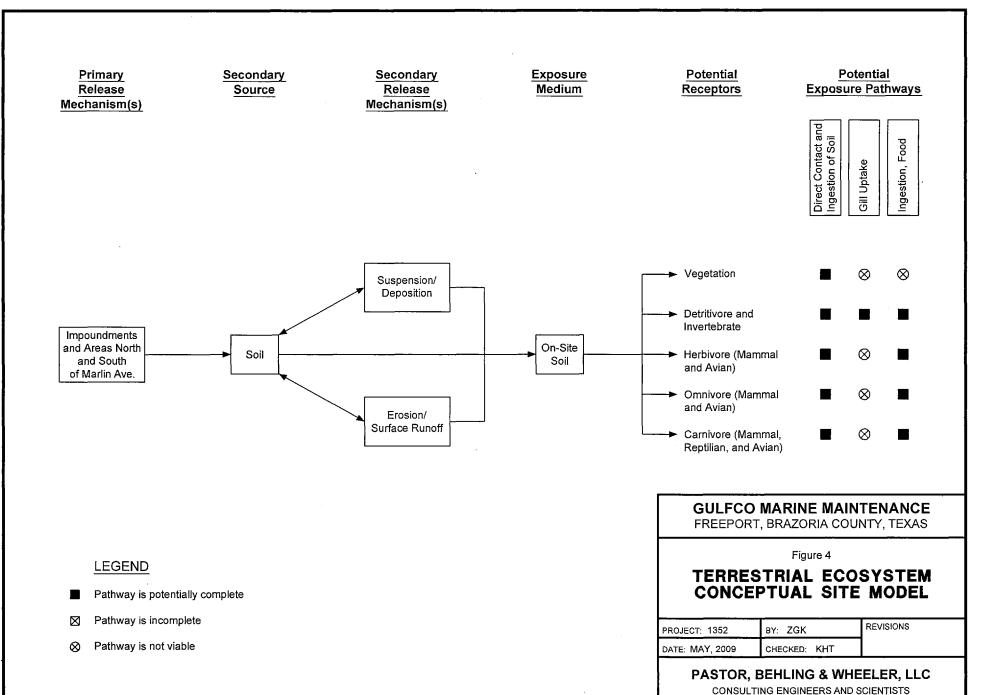
Figure 1 SITE LOCATION MAP

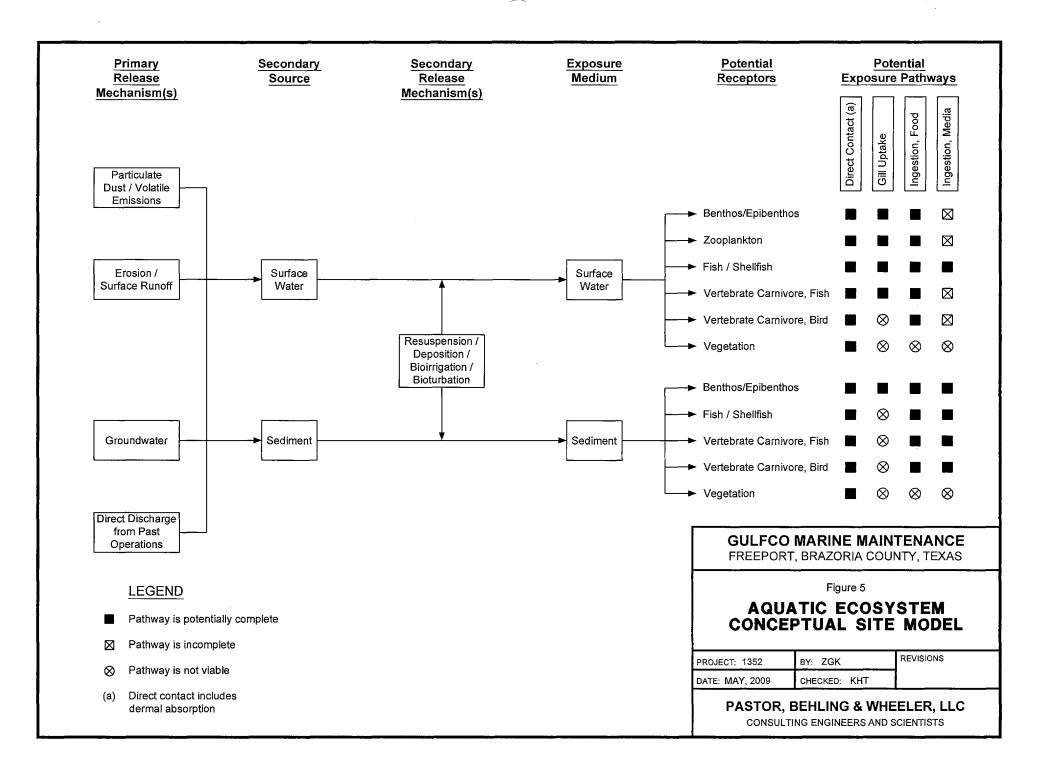
PROJECT: 1352	BY: ZGK	REVISIONS
DATE: MAY, 2009	CHECKED: EFP	

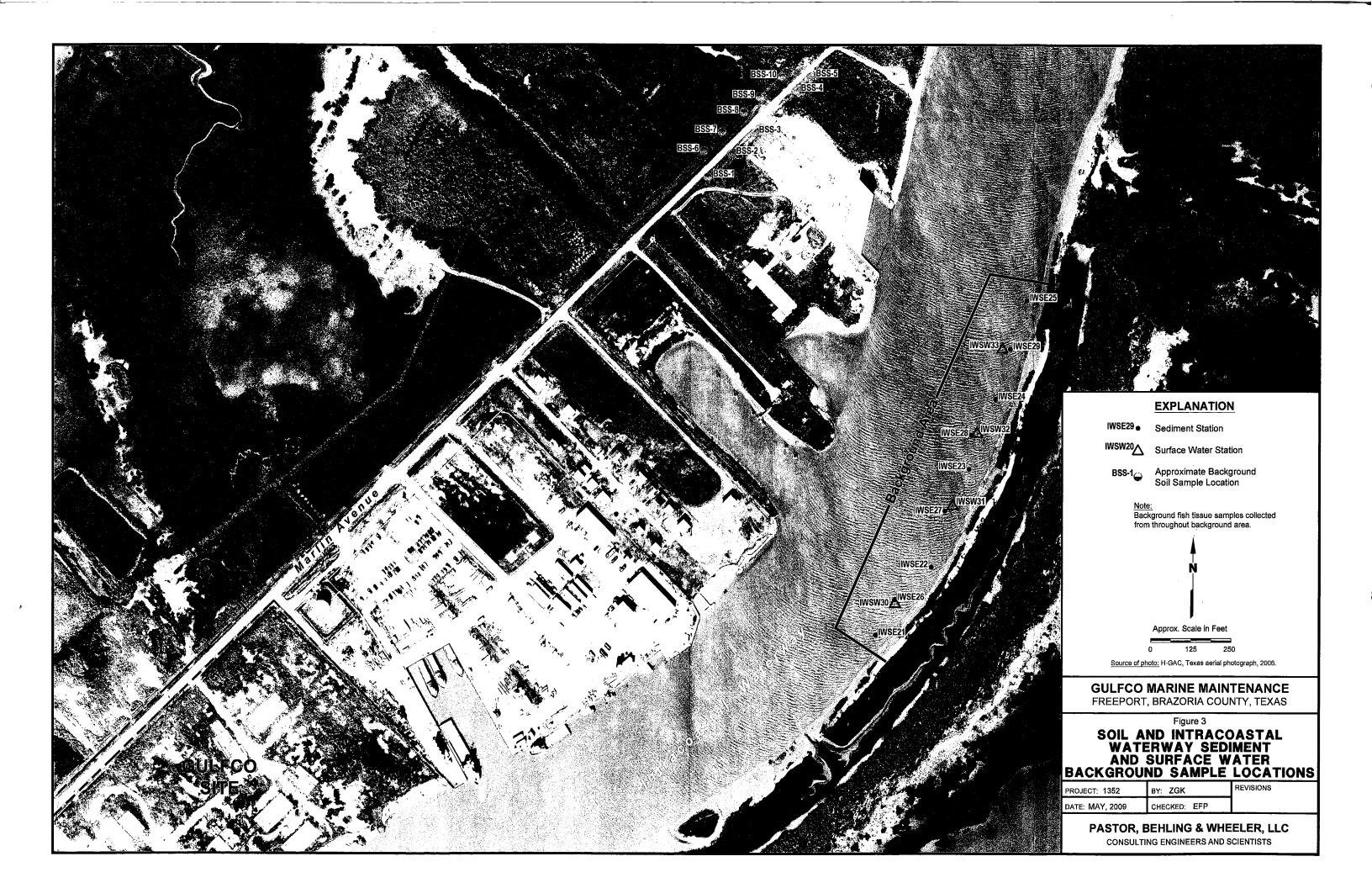
PASTOR, BEHLING & WHEELER, LLC

CONSULTING ENGINEERS AND SCIENTISTS









APPENDIX A PRO UCL OUTPUT

APPENDIX A-1

SOUTH OF MARLIN SURFACE SOIL

	General UCL Statistics	for Eul Deter	Pote	
User Selected Options		s for Full Data s	Seis	
From File		\data queries o	ct 07\EPC tables with onehalf DL\95% detect frequency \$	SURFAC
Full Precision	OFF	idata queries o	CLOVICE O LABOUS WITH OHER AND DELOOM detect inequency C	
Confidence Coefficient	95%	nanca and the order and an analysis and the section and		
umber of Bootstrap Operations	2000			,
esult or 1/2 SDL (2-methylnapht	thalene)			
	rognam ^{ter} detedestiggdadejorannagassasprepajandendede	General Sta	tistics	
N	umber of Valid Samples	83	Number of Unique Samples	53
Raw S	tatistics	77.78	Log-transformed Statistics	
and the state of the league of the Hill Hill Have a state of the state	Minimum	0.0047	Minimum of Log Data	-5.354
<u>Marikankanikan (kirikankan) (kirikan kirikan kirikan kirikan kirikan kirikan kirikan kirikan kirikan kirikan k</u>	Maximum	0.501	Maximum of Log Data	-0.691
ом обятия в продости продусский продусский продусский продусский продусский продусский продусский продусский п В продусский продусский продусский продусский продусский продусский продусский продусский продусский продусски	Mean	0.0293	Mean of log Data	-4.479
anti Perrinci de la constitució de la la perente de de al como de la delada como momento de la tropia momento	Median	0.0055	SD of log Data	1.14
anna (1988) (Santinganian in 1988) (Bartha (Bartha) (Bartha) (Bartha) (Bartha) (Bartha) (Bartha) (Bartha) (Bartha)	SD	0.0715		
	Coefficient of Variation	2.438		
	Skewness	5.333		
N	F	Relevant UCL S	Statistics	d
Normal Dis	tribution Test		Lognormal Distribution Test	
and the second section of the second section of the second section of the second section of the second section	Lilliefors Test Statistic	0.365	Lilliefors Test Statistic	0.33
and the second states of the s	Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.09
Data not Normal at 8	5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Nor	mal Distribution		Assuming Lognormal Distribution	
And the second s	95% Student's-t UCL	0.0424	95% H-UCL	0.02
95% UCLs (Adju	sted for Skewness)		95% Chebyshev (MVUE) UCL	0.03
And the second district the second	95% Adjusted-CLT UCL	0.0472	97.5% Chebyshev (MVUE) UCL	0.04
	95% Modified-t UCL	0.0432	99% Chebyshev (MVUE) UCL	0.05
Gamma Dis	tribution Test		Data Distribution	and the red the still for a
alle princent and conference transmission and response to the second contract to the second contract and and c	k star (bias corrected)	0.628	Data do not follow a Discernable Distribution (0.05	i)
	Theta Star	0.0467		
	nu star	104.3		
	Chi Square Value (.05)	81.71	Nonparametric Statistics	
-	ed Level of Significance	0.0471	95% CLT UCL	0.04
Adj	usted Chi Square Value	81.36	95% Jackknife UCL	0.04
	D	11.00	95% Standard Bootstrap UCL	0.04
	on-Darling Test Statistic	11.06	95% Bootstrap-t UCL	0.06 0.10
	Parling 5% Critical Value v-Smirnov Test Statistic	0.804	95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL	0.10
	v-Smirnov Test Statistic	0.333	95% Percentile Bootstrap UCL	0.04
Data not Gamma Distribut			95% Chebyshev(Mean, Sd) UCL	0.04
Dam not dannia Distibut	od at on organicalice Le		97.5% Chebyshev(Mean, Sd) UCL	0.00
Assuming Gan	nma Distribution		99% Chebyshev(Mean, Sd) UCL	0.10
-	proximate Gamma UCL	0.0374	33 /3 Silveryanov(moun, our doct	
5070 Ap				
95%	Adjusted Gamma UCL	0.0376		

ult or 1/2 SDL (4,4'-ddd)			
	General Stat	istics	
Number of Valid Samples	83	Number of Unique Samples	55
Raw Statistics		Log-transformed Statistics	
Minimum		Minimum of Log Data	-9.04
Maximum	0.0243	Maximum of Log Data	-3.71
	7.8940E-4	Mean of log Data	-8.51
	1.3300E-4	SD of log Data	1.08
SD	0.0030		on on the state of
Coefficient of Variation	3.894		
Skewness	6.54		ntwikenenth on the best faith.
F	Relevant UCL S	tatistics	an agreement of the same
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.435	Lilliefors Test Statistic	0.42
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.09
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0013	95% H-UCL	4.7561E
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	5.8317E
95% Adjusted-CLT UCL	0.0016	97.5% Chebyshev (MVUE) UCL	6.8130E
95% Modified-t UCL	0.0013	99% Chebyshev (MVUE) UCL	8.7406E
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.458	Data do not follow a Discernable Distribution (0.0)	5)
Theta Star	0.0017	<u> </u>	
nu star	76.06		
Approximate Chi Square Value (.05)	56.97	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.00
Adjusted Chi Square Value	56.68	95% Jackknife UCL	0.00
		95% Standard Bootstrap UCL	0.00
Anderson-Darling Test Statistic	22.2	95% Bootstrap-t UCL	0.00
Anderson-Darling 5% Critical Value	0.827	95% Hall's Bootstrap UCL	0.00
Kolmogorov-Smirnov Test Statistic	0.467	95% Percentile Bootstrap UCL	0.00
Kolmogorov-Smirnov 5% Critical Value	0.104	95% BCA Bootstrap UCL	0.00
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.00
		97.5% Chebyshev(Mean, Sd) UCL	0.00
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.00
95% Approximate Gamma UCL	0.0010		#*************************************
95% Adjusted Gamma UCL	0.0010		
Potential UCL to Use	de sec	Use 97.5% Chebyshev (Mean, Sd) UCL	0.00

	General S		
Number of Valid Samples	83	Number of Unique Samples	65
Raw Statistics		Log-transformed Statistics	1000-100-100 perget-santana - 100
Minimum	1.6300E-4	Minimum of Log Data	-8.722
Maximum	0.0693	Maximum of Log Data	-2.669
Mean	0.0019	Mean of log Data	-7.87
Median	1.8900E-4	SD of log Data	1.30
SD	0.0080		Pi
Coefficient of Variation	4.214		,
Skewness	7.636		**************************************
	Relevant UC	1 Statistics	
Normal Distribution Test	Relevant OC	Lognormal Distribution Test	***************************************
Lilliefors Test Statistic	0.414	Lilliefors Test Statistic	0.358
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.097
Data not Normal at 5% Significance Level	0.0070	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0033	95% H-UCL	0.001
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.001
95% Adjusted-CLT UCL	0.0041	97.5% Chebyshev (MVUE) UCL	0.001
95% Modified-t UCL	0.0034	99% Chebyshev (MVUE) UCL	0.002
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.402	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.0047		entrangue contratación de la con
nu star	66.7		
Approximate Chi Square Value (.05)	48.9	Nonparametric Statistics	*****************
Adjusted Level of Significance	0.0471	95% CLT UCL	0.003
Adjusted Chi Square Value	48.63	95% Jackknife UCL	0.003
		95% Standard Bootstrap UCL	0.003
Anderson-Darling Test Statistic	15.79	95% Bootstrap-t UCL	0.008
Anderson-Darling 5% Critical Value	0.84	95% Hall's Bootstrap UCL	0.008
Kolmogorov-Smirnov Test Statistic	0.364	95% Percentile Bootstrap UCL	0.003
Kolmogorov-Smirnov 5% Critical Value	0.105	95% BCA Bootstrap UCL	0.004
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.005
		97.5% Chebyshev(Mean, Sd) UCL	0.007
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.010
95% Approximate Gamma UCL	0.0026		
95% Adjusted Gamma UCL	0.0026		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.007
esult or 1/2 SDL (4,4'-ddt)			
tin til	General S	Statistics	
Number of Valid Samples	83	Number of Unique Samples	67
Raw Statistics	200	Log-transformed Statistics	
	6.2500E-5	Minimum of Log Data	

			4.488
Maximum	0.0625	Maximum of Log Data	-2.773
Mean	0.0028		-7.704
	3.1700E-4	SD of log Data	2.095
SD	0.0092		2.030
Coefficient of Variation	2.422		

Skewness	4.079		, I.o., (1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
	Relevant U	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.342	Lilliefors Test Statistic	0.255
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.097
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0,0055		0.009
95% UCLs (Adjusted for Skewness)	0.3000	95% Chebyshev (MVUE) UCL	0.009
95% Adjusted -CLT UCL	0.006	97.5% Chebyshev (MVUE) UCL	0.003
95% Modified-t UCL	0.006		0.012
33 / Modified LOCE	0.0030	33 /3 CHEDYSHEV (WIVOL) CCL	0.017
Gamma Distribution Test		Data Distribution	·
k star (bias corrected)	0.315	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.0122		
nu star	52.37		
Approximate Chi Square Value (.05)	36.75	Nonparametric Statistics	•
Adjusted Level of Significance	0.0471	95% CLT UCL	0.005
Adjusted Chi Square Value	36.52	95% Jackknife UCL	0.005
		95% Standard Bootstrap UCL	0.005
Anderson-Darling Test Statistic	7.358	95% Bootstrap-t UCL	0.006
Anderson-Darling 5% Critical Value	0.861	95% Hall's Bootstrap UCL	0.006
Kolmogorov-Smirnov Test Statistic	0,235	95% Percentile Bootstrap UCL	0.005
Kolmogorov-Smirnov 5% Critical Value	0.106	95% BCA Bootstrap UCL	0.006
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.008
V		97.5% Chebyshev(Mean, Sd) UCL	0.010
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.014
95% Approximate Gamma UCL	0.0054		0.017
95% Approximate Gamma UCL	0.0054		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.014
esult or 1/2 SDL (acenaphthene)			
Number of Valid Samples	General 83	Statistics Number of Unique Samples	67
			- •
Raw Statistics		Log-transformed Statistics	
Minimum	0.0043		-5.438
Maximum	1.69	Maximum of Log Data	0.525
Mean	0.0595	Mean of log Data	-4.288
Median	0.0051	SD of log Data	1.443
SD	0.2		· · · · · · · · · · · · · · · · · · ·
Coefficient of Variation	3.372		

Skewness	7.061		

	Relevant UCL S		
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.392	Lilliefors Test Statistic	0.32
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.09
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0961	95% H-UCL	0.05
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0
95% Adjusted-CLT UCL	0.114	97.5% Chebyshev (MVUE) UCL	0.0
95% Modified-t UCL	0.0989	99% Chebyshev (MVUE) UCL	0.1
Gamma Distribution Test		Data Distribution	
	0.434	Data do not follow a Discernable Distribution (0.0)	<u> </u>
k star (bias corrected) Theta Star	0.434	Data do not lollow a Discentable Distribution (0.0	-)
nu star	72.06		
Approximate Chi Square Value (.05)	53.51	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.0
Adjusted Chi Square Value	53.23	95% Jackknife UCL	0.0
Adjusted Off Oquale Value	00.20	95% Standard Bootstrap UCL	0.0
Anderson-Darling Test Statistic	10.45	95% Bootstrap-t UCL	0.1
Anderson-Darling 5% Critical Value	0.832	95% Hall's Bootstrap UCL	0.2
Kolmogorov-Smirnov Test Statistic	0.313	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.105	95% BCA Bootstrap UCL	0.1
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.1
Date not dannia Distributed at 3% diginicance Le		97.5% Chebyshev(Mean, Sd) UCL	0.19
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.2
95% Approximate Gamma UCL	0.0801	30% Griddyshov (Modri, Gdy Gold	·····
95% Adjusted Gamma UCL	0.0805		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.1
lt or 1/2 SDL (acenaphthylene)			
	General Stati	stics	
Number of Valid Samples	83	Number of Unique Samples	46
Raw Statistics		Log-transformed Statistics	
Minimum)	0.0049	Minimum of Log Data	-5.31
Maximum	0.935	Maximum of Log Data	-0.067
Mean	0.0382	Mean of log Data	-4.44
Median	0.0057	SD of log Data	1.26
SD	0.11		
Coefficient of Variation	2.876		and the second s
Skewness	6.947		
R	Relevant UCL S	atistics	
Normal Distribution Test		Lognormal Distribution Test	
	0.381	Lilliefors Test Statistic	0.3

Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.097
Data not Normal at 5% Significance Level	.	Data not Lognormal at 5% Significance Level	
Assuming Named Diskthytian		Assuming Lower and Distribution	
Assuming Normal Distribution	0.0500	Assuming Lognormal Distribution	0.037
95% Student's-t UCL	0.0582		
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.045
95% Adjusted-CLT UCL	0.0678		0.054
95% Modified-t UCL	0.0598	99% Chebyshev (MVUE) UCL	0.071
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.522	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.0731		14 call
nu star	86.68		
Approximate Chi Square Value (.05)	66.22	Nonparametric Statistics	
Adjusted Level of Significance	0.0471		0.058
Adjusted Chi Square Value	65.91	95% Jackknife UCL	0.058
Adjusted Offi Oquale Value	00.31	95% Standard Bootstrap UCL	0.058
Anderson-Darling Test Statistic	13.38	95% Bootstrap-t UCL	0.085
			0.080
Anderson-Darling 5% Critical Value	0.815	95% Hall's Bootstrap UCL	*********
Kolmogorov-Smirnov Test Statistic	0.393	95% Percentile Bootstrap UCL	0.060
Kolmogorov-Smirnov 5% Critical Value	0.103	95% BCA Bootstrap UCL	0.074
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.090
	mentaling the national contraction of the second	97.5% Chebyshev(Mean, Sd) UCL	0.113
Assuming Gamma Distribution	American van state and An distribution being out-the first state of	99% Chebyshev(Mean, Sd) UCL	0.158
95% Approximate Gamma UCL	0.05		
95% Adjusted Gamma UCL	0.0502		adelinger ppp advanterior
Potential UCL to Use	THE PROPERTY OF THE PROPERTY OF	Use 97.5% Chebyshev (Mean, Sd) UCL	0.113
lesult or 1/2 SDL (aluminum)			
Number of Valid Samples	General 83	Statistics Number of Unique Samples	79
Raw Statistics		Log-transformed Statistics	
Minimum	414	Minimum of Log Data	6.026
Maximum	15200	Maximum of Log Data	9.629
Mean	5335	Mean of log Data	8.345
Median	4650	SD of log Data	0.757
SD	3345		
Coefficient of Variation	0.627		
Skewness	0.744		
	Relevant U(CL Statistics	
Normal Distribution Test	the case of the first of the case of the c	Lognormal Distribution Test	
Lilliefors Test Statistic	0.0927	Lilliefors Test Statistic	0.088
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.097
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	and the second s
Assuming Normal Distribution	ED46		662E
95% Student's-t UCL	5946	95% H-UCL	0030

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95% UCLs (Adjusted for Skewness)				95% (Chebyshev (MVUE) LICI	7839
95% Adjusted-CLT UCL	5971	erater en anna en	h. quagaa ayaa hagaa ayaa ayaa ayaa ayaa ayaa			MVUE) UCL	8817
95% Modified-t UCL						MVUE) UCL	10737
3370 Modified-1 GOL	1 0001		pata 1146-1-1-1-1-1-1-1-1-1		Jiebysilev (WVOL) OOL	10/3/
Gamma Distribution Test		· H· · · · · · · · · · · · · · · · · ·	***************************************	Data D	istribution	ente activitation of the section of	
k star (bias corrected)	2.187		Data appe	ar Normal a	at 5% Signifi	cance Level	
Theta Star	2439						
nu star	363.1				***************************************	eggan i i i i i i i i i i i i i i i i i i i	
Approximate Chi Square Value (.05)	320		######################################	Nonparamo	etric Statistic	S	
Adjusted Level of Significance	0.0471				95	% CLT UCL	5939
Adjusted Chi Square Value	319.2	**************************************			95% Ja	ckknife UCL	5946
			***************************************	95%	Standard Bo	otstrap UCL	5930
Anderson-Darling Test Statistic	0.468					tstrap-t UCL	5983
Anderson-Darling 5% Critical Value	0.762			9		otstrap UCL	5976
Kolmogorov-Smirnov Test Statistic	0.074		er servi saerigran kirja (u.e.a. 1004)		ercentile Bo	'	5953
Kolmogorov-Smirnov 5% Critical Value	0.0992	minimining management and an area	······································		5% BCA Bo	,	5953
Data appear Gamma Distributed at 5% Significance	1					an, Sd) UCL	6936
Date appear Guinnia Distributed at 3% Significance	LCAC!				ebysnev(Me		7628
Assuming Gamma Distribution			· · · · · · · · · · · · · · · · · · ·		- ,		7628 8989
	COEE		it-tiri-bahalan perimanan	99% UN	ebyshev(Me	an, ou) UCL	೦೪೮೪
95% Approximate Gamma UCL	6055		areachine articular a				
95% Adjusted Gamma UCL	6068						
Potential UCL to Use				AMINONESSAMINA		dent's-t UCL	5946
Number of Valid Samples	General S	Statistics		Nui	mber of Unio	ue Samples	63
		o in contract the state of state of the benefit of		ter englessere ter regisere i mentelike bryen		1	
Raw Statistics			L	og-transfor	med Statisti	CS	
Minimum	0.0049					of Log Data	<i>-</i> 5.31
Maximum	2.46				Maximum	of Log Data	0.9
Mean	0.0961				Mear	of log Data	
Median	0.0112		A		~		-3.85
SD	0.293				SL	of log Data	#F1711111411WWW.148#14#M447114
^#:	0.233					of log Data	#F1711111411WWW.148#14#M447114
Coefficient of Variation	3.053	reading the representative or the period of the particular and the second of the secon	***************************************		SL.	of log Data	
Skewness					SL	of log Data	dritti (1140)
Skewness	3.053 6.861	N. Statistics			SL	of log Data	dritti (1140)
Skewness	3.053	CL Statistics		ognormal N			#F1711111411WWW.148#14#M447114
Skewness Normal Distribution Test	3.053 6.861 Relevant UC	CL Statistics	Lo	ognormal D	istribution T	est	1.5
Skewness Normal Distribution Test Lilliefors Test Statistic	3.053 6.861 Relevant UC	CL Statistics	Lc	ognormal D	istribution T	est est Statistic	0.2
Skewness Normal Distribution Test	3.053 6.861 Relevant UC				istribution T	est est Statistic ritical Value	0.2
Skewness Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value	3.053 6.861 Relevant UC				istribution T Lilliefors T Lilliefors C	est est Statistic ritical Value	0.2
Skewness Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value	3.053 6.861 Relevant UC		Data not Lo	ognormal a	istribution T Lilliefors T Lilliefors C	est est Statistic ritical Value cance Level	0.2
Normal Distribution Test Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level	3.053 6.861 Relevant UC		Data not Lo	ognormal a	istribution To Lilliefors To Lilliefors Co t 5% Signific ormal Distrib	est est Statistic ritical Value cance Level	0.2
Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	3.053 6.861 Relevant UC 0.378 0.0973		Data not Lo	ognormal a	istribution To Lilliefors To Lilliefors Co t 5% Signific ormal Distrib	est est Statistic ritical Value cance Level oution	0.2 0.0 0.1
Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	3.053 6.861 Relevant UC 0.378 0.0973		Data not Lo	ognormal a ming Logn 95% C	istribution T Lilliefors T Lilliefors C t 5% Signific ormal Distrit	est est Statistic ritical Value cance Level oution 95% H-UCL	0.2 0.0 0.1:
Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	3.053 6.861 Relevant UC 0.378 0.0973		Data not Lo	ognormal a ming Logn 95% (97.5% (istribution T Lilliefors T Lilliefors C t 5% Signific ormal Distrib	est est Statistic ritical Value cance Level oution 95% H-UCL MVUE) UCL	0.24 0.09 0.11 0.11 0.12
Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	3.053 6.861 Relevant UC 0.378 0.0973		Data not Lo	ognormal a ming Logn 95% C 97.5% C	istribution To Lilliefors To Lilliefors Co t 5% Signific ormal Distrib Ormal Distrib Chebyshev (I	est est Statistic ritical Value cance Level oution 95% H-UCL MVUE) UCL	0.2 0.0 0.1 0.1

	[4]. A	 	
k star (bias corrected)	0.422	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	<u></u>	,	
nu star	70.13		
Approximate Chi Square Value (.05)	51.85	Nonparametric Statistics	
Adjusted Level of Significance	0.0471		0.149
Adjusted Chi Square Value	51.57	95% Jackknife UCL	0.15
		95% Standard Bootstrap UCL	0.15
Anderson-Darling Test Statistic	7.484	95% Bootstrap-t UCL	0.244
Anderson-Darling 5% Critical Value	0.835	95% Hall's Bootstrap UCL	0.369
Kolmogorov-Smirnov Test Statistic	0.229	95% Percentile Bootstrap UCL	0.155
Kolmogorov-Smirnov 5% Critical Value	0.105	95% BCA Bootstrap UCL	0.19
Data not Gamma Distributed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL	0.236
	***************************************	97.5% Chebyshev(Mean, Sd) UCL	0.297
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.416
95% Approximate Gamma UCL	0.13		
95% Adjusted Gamma UCL	0.131		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.297
esult or 1/2 SDL (antimony)			
	General S	Statistics	
Number of Valid Samples	83	Number of Unique Samples	49
	_		
Raw Statistics		Log-transformed Statistics	
Minimum	0.095	Minimum of Log Data	-2.354
Maximum	5.14	Maximum of Log Data	1.637
Mean	1.118	Mean of log Data	-0.619
Median	0.23	SD of log Data	1.266
SD	1.228		·
Coefficient of Variation	1.099		ttter-fr-8ttstischMan-activ
Skewness	1.098		**************************************
F	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.307	Lilliefors Test Statistic	0.281
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.097
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	and the state of t	Assuming Lognormal Distribution	
95% Student's-t UCL	1.342	95% H-UCL	1.703
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	2.102
95% Adjusted-CLT UCL	1.357	97.5% Chebyshev (MVUE) UCL	2.5
95% Modified-t UCL	1.345	99% Chebyshev (MVUE) UCL	3.283
Commo Distribution Total		Date Distribution	
Gamma Distribution Test	0.70	Data Distribution	`
k star (bias corrected)	0.79	Data do not follow a Discernable Distribution (0.05	<i>'</i>
Theta Star	1.414		
nu star	131.2	N	
Approximate Chi Square Value (.05)	105.7	Nonparametric Statistics	4 000
Adjusted Level of Significance	0.0471	95% CLT UCL	1.339

		Substitution of Transportation of the second	
		0.00	1.040
Adjusted Chi Square Value	105.3	95% Jackknife UCL	1.342
Anderson-Darling Test Statistic	6.492	95% Standard Bootstrap UCL	1.334
Anderson-Darling 1est Statistic Anderson-Darling 5% Critical Value	0.791	95% Bootstrap-t UCL 95% Hall's Bootstrap UCL	1.357
Kolmogorov-Smirnov Test Statistic	0.791	95% Percentile Bootstrap UCL	1.349
Kolmogorov-Smirnov 1est Statistic Kolmogorov-Smirnov 5% Critical Value	0.302	95% BCA Bootstrap UCL	1.348
Data not Gamma Distributed at 5% Significance L		95% Chebyshev(Mean, Sd) UCL	1.705
Data not danima distributed at 5% Significance Li	avei	97.5% Chebyshev(Mean, Sd) UCL	1.700
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	2.459
95% Approximate Gamma UCL	1.387	33% Onedyshev(Wear, Od) 30CL	2.700
95% Adjusted Gamma UCL	1.392	-	
	1.002		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	1.959
Result or 1/2 SDL (aroclor-1254) Number of Valid Samples	General S	tatistics Number of Unique Samples	63
Raw Statistics	0.0010	Log-transformed Statistics	-6.422
Minimum	0.0016	Minimum of Log Data	
Maximum	7.98	Maximum of Log Data	2.077
Mean	0.137	Mean of log Data	-5.526
Median	0.0018	SD of log Data	1.783
SD Coefficient of Variation	0.875		
Skewness	6.368 8.719		
	Relevant UC	Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.446	Lilliefors Test Statistic	0.425
Lilliefors Critical Value	0.0955	Lilliefors Critical Value	0.095
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.294	95% H-UCL	0.035
95% UCLs (Adjusted for Skewness)	1	95% Chebyshev (MVUE) UCL	0.041
95% Adjusted-CLT UCL	0.387	97.5% Chebyshev (MVUE) UCL	0.051
95% Modified-t UCL	0.309	99% Chebyshev (MVUE) UCL	0.071
Gamma Distribution Test		Data Distribution	pr
k star (bias corrected)	0.207	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.663		-
nu star	35.66		
Approximate Chi Square Value (.05)	22.99	Nonparametric Statistics	**************************************
Adjusted Level of Significance	0.0472	95% CLT UCL	0.293
Adjusted Chi Square Value	22.82	95% Jackknife UCL	0.294
		95% Standard Bootstrap UCL	0.294
Anderson-Darling Test Statistic	23.56	95% Bootstrap-t UCL	1.17
Anderson-Darling 5% Critical Value	0.908	95% Hall's Bootstrap UCL	0.859
Kolmogorov-Smirnov Test Statistic	0.451	95% Percentile Bootstrap UCL	0.323

Thomps, agent the transfer from the process of the contract of	,	TOWNS OF THE PROPERTY OF THE P	Z. 1 18 Z 1
	0.407	050/ 200 200 400	0.45
Kolmogorov-Smirnov 5% Critical Value	0.107	95% BCA Bootstrap UCL	0.45
Data not Gamma Distributed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL	0.548
		97.5% Chebyshev(Mean, Sd) UCL	0.726
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.076
95% Approximate Gamma UCL	0.213		
95% Adjusted Gamma UCL	0.215		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.726
Result or 1/2 SDL (arsenic)	/		
	General S	tatistics	
Number of Valid Samples	83	Number of Unique Samples	78
Raw Statistics		Log-transformed Statistics	
Minimum	0.085	Minimum of Log Data	-2.465
Maximum	24.3	Maximum of Log Data	3.19
Mean	3.735	Mean of log Data	0.735
Median	2.49	SD of log Data	1.257
SD	4.012		
Coefficient of Variation	1.074		
Skewness	2,522		
Skewiless	2.322		
	Relevant UC	Statistics	
Normal Distribution Test	veievani oo	Lognormal Distribution Test	
Lilliefors Test Statistic	0.186	Lilliefors Test Statistic	0.128
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.097
Data not Normal at 5% Significance Level	0.0070	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	***************************************	Assuming Lognormal Distribution	erry to the control of the section by
95% Student's-t UCL	4.467	95% H-UCL	6.497
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	8.02
95% Adjusted-CLT UCL	4.589	97.5% Chebyshev (MVUE) UCL	9.533
95% Modified-t UCL	4.488	99% Chebyshev (MVUE) UCL	12.5
Gamma Distribution Test		Data Distribution	
	0.004		
k star (bias corrected)	0.964	Data appear Gamma Distributed at 5% Significance I	-cvei
Theta Star	3.873		
nu star	160.1		1101-1000-1
Approximate Chi Square Value (.05)	131.8	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	4.459
Adjusted Chi Square Value	131.4	95% Jackknife UCL	4.467
		95% Standard Bootstrap UCL	4.439
Anderson-Darling Test Statistic	0.324	95% Bootstrap-t UCL	4.598
Anderson-Darling 5% Critical Value	0.783	95% Hall's Bootstrap UCL	4.764
Kolmogorov-Smirnov Test Statistic	0.061	95% Percentile Bootstrap UCL	4.487
Kolmogorov-Smirnov 5% Critical Value	0.101	95% BCA Bootstrap UCL	4.531
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	5.654
		97.5% Chebyshev(Mean, Sd) UCL	6.485
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	8.116
	4.535		

95% Adjusted Gamma UCL	4.551	and the set Land and the Land Bell and send a Justice 1970 to	
Potential UCL to Use		Use 95% Approximate Gamma UCL	4.53
· Oterinar OCE to OSE		OSC 3570 Approximate damina GOL	4.00
sult or 1/2 SDL (barium)			
sart of 172 obt (barrain)	-friend and a data to contible to the street of		
	General S	Statistics	
Number of Valid Samples	83	Number of Unique Samples	79
Raw Statistics		Log-transformed Statistics	
Minimum	18.6	Minimum of Log Data	2.92
Maximum		Maximum of Log Data	7.68
Mean	345.2	Mean of log Data	5.4
Median	206	SD of log Data	0.84
SD	349	OD OF 10g Data	
Coefficient of Variation	1.011		
Skewness	2.74		,
			##- ## - ## - ## - ## - ## - ## - ## -
	Relevant UC		
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.199	Lilliefors Test Statistic	0.0
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.09
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	408.9	95% H-UCL	415.1
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	496.4
95% Adjusted-CLT UCL	420.5	97.5% Chebyshev (MVUE) UCL	564
95% Modified-t UCL	410.9	99% Chebyshev (MVUE) UCL	696.9
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.478	Data appear Lognormal at 5% Significance Leve	Ĭ
Theta Star	233.6		
nu star	245.3		
Approximate Chi Square Value (.05)	210	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	408.2
Adjusted Chi Square Value	209.5	95% Jackknife UCL	408.9
		95% Standard Bootstrap UCL	409.3
Anderson-Darling Test Statistic	2.05	95% Bootstrap-t UCL	434.7
Anderson-Darling 5% Critical Value	0.77	95% Hall's Bootstrap UCL	439
Kolmogorov-Smirnov Test Statistic	0.146	95% Percentile Bootstrap UCL	412.1
Kolmogorov-Smirnov 5% Critical Value	0.0998	95% BCA Bootstrap UCL	421.9
Data not Gamma Distributed at 5% Significance Lo	evel	95% Chebyshev(Mean, Sd) UCL	512.2
		97.5% Chebyshev(Mean, Sd) UCL	584.4
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	726.4
95% Approximate Gamma UCL	403.2		
95% Adjusted Gamma UCL	404.3		# Part 141 Magnetic 1 (1880) 1480
Potential UCL to Use		Use 95% H-UCL	415.1
/ Oldinar COL to 030	Į	030 30 71 1 1 0 0 0 0	

Number of Valid Samples	1 00		
Pour Chablan	83	Number of Unique Samples	70
	-swa managana	Log-transformed Statistics	a Milatolpus a sala Fassados Isada.
Raw Statistics Minimum 0.0044			-5.415
Maximum	5.02	Maximum of Log Data	-5.415 1.61
Mean	0.345	Mean of log Data	-3.502
Median	0.005		2.25
SD	0.793	S OD OTTOS Date	۷.2.
Coefficient of Variation	2.297		
Skewness	3.493		r municipani di di
Normal Distribution Test	Relevant U	CL Statistics Lognormal Distribution Test	v
Lilliefors Test Statistic	0.364	Lilliefors Test Statistic	0.28
Lilliefors Critical Value	0.0973		0.09
Data not Normal at 5% Significance Level	0.037	Data not Lognormal at 5% Significance Level	0.03
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.49	95% H-UCL	0.94
95% UCLs (Adjusted for Skewness)	g shifther at a character at a proper at a supposed at a	95% Chebyshev (MVUE) UCL	0.94
95% Adjusted-CLT UCL	0.524	97.5% Chebyshev (MVUE) UCL	1.20
95% Modified-t UCL	0.495	99% Chebyshev (MVUE) UCL	1.71
Gamma Distribution Test	to to ear annual to the annual to the	Data Distribution	
k star (bias corrected)	0.283	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	1.22		
nu star	46.96		Zalla zarrika eta errika baria bari
Approximate Chi Square Value (.05)	32.23	Nonparametric Statistics	***************************************
Adjusted Level of Significance	0.0471	95% CLT UCL	0,48
Adjusted Chi Square Value	32.02	95% Jackknife UCL	0.49
		95% Standard Bootstrap UCL	0.48
Anderson-Darling Test Statistic	9.314	95% Bootstrap-t UCL	0.54
Anderson-Darling 5% Critical Value	0.872	95% Hall's Bootstrap UCL	0.56
Kolmogorov-Smirnov Test Statistic	0.281	95% Percentile Bootstrap UCL	0.50
Kolmogorov-Smirnov 5% Critical Value	0.107	95% BCA Bootstrap UCL	0.53
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.72
	************************************	97.5% Chebyshev(Mean, Sd) UCL	0.88
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.21
95% Approximate Gamma UCL	0.503		
95% Adjusted Gamma UCL	0.506		
Potential UCL to Use	riga vesto di dan badi da di da d	Use 99% Chebyshev (Mean, Sd) UCL	1.21
lt or 1/2 SDL (benzo(a)pyrene)			

سالا وما حربا المتعبقا الاطاك	Log-transformed Statistics	(<u>5)</u> - # (5) F (5) <u>6</u> (Raw Statistics
-5.419	Minimum of Log Data	0.0044	: Minimum
1.52	Maximum of Log Data	4.57	Maximum
-2.692	Mean of log Data	0.452	Mean
2.07	SD of log Data	0.0514	Median
		0.92	SD
		2.036	Coefficient of Variation
		2.73	Skewness
	tatistics	elevant UCL	F
	Lognormal Distribution Test		Normal Distribution Test
0.10	Lilliefors Test Statistic	0.329	Lilliefors Test Statistic
0.09	Lilliefors Critical Value	0.0973	Lilliefors Critical Value
	Data not Lognormal at 5% Significance Level		Data not Normal at 5% Significance Level
	Assuming Lognormal Distribution		Assuming Normal Distribution
1.26	95% H-UCL	0.62	95% Student's-t UCL
1.37	95% Chebyshev (MVUE) UCL		95% UCLs (Adjusted for Skewness)
1.73	97.5% Chebyshev (MVUE) UCL	0.651	95% Adjusted-CLT UCL
2.44	99% Chebyshev (MVUE) UCL	0.625	95% Modified-t UCL
nament maner interpretables des	Data Distribution		Gamma Distribution Test
5)	Data do not follow a Discernable Distribution (0.05	0.349	k star (bias corrected)
		1.296	Theta Star
		57.92	nu star
	Nonparametric Statistics	41.43	Approximate Chi Square Value (.05)
0.61	95% CLT UCL	0.0471	Adjusted Level of Significance
0.62	95% Jackknife UCL	41.18	Adjusted Chi Square Value
0.62	95% Standard Bootstrap UCL		
0.69	95% Bootstrap-t UCL	4.332	Anderson-Darling Test Statistic
0.64	95% Hall's Bootstrap UCL	0.853	Anderson-Darling 5% Critical Value
0.62	95% Percentile Bootstrap UCL	0.213	Kolmogorov-Smirnov Test Statistic
0.65	95% BCA Bootstrap UCL	0.106	Kolmogorov-Smirnov 5% Critical Value
0.89	95% Chebyshev(Mean, Sd) UCL		Data not Gamma Distributed at 5% Significance Le
1.08	97.5% Chebyshev(Mean, Sd) UCL	/ei	Data not Gamma Distributed at 3% dignificance Le
1.45	99% Chebyshev(Mean, Sd) UCL		Assuming Gamma Distribution
1.40	33 % Chebyshev (Weah, 3d) CCL	0.632	95% Approximate Gamma UCL
nek i ka i nepti ata i Kirti i mafili ata ke		0.636	95% Adjusted Gamma UCL
1.45	Use 99% Chebyshev (Mean, Sd) UCL		Potential UCL to Use
1.45	Use 99% Chebyshev (Mean, Sd) UCL		Potential UCL to Use 2 SDL (benzo(b)fluoranthene)
	stics	General Sta	
79	Number of Unique Samples	83	Number of Valid Samples
	Log-transformed Statistics	}	Raw Statistics
-5.688	Minimum of Log Data	0.0033	Minimum
1.69	Maximum of Log Data	5.42	Maximum
-2.042	Mean of log Data	0.582	Mean
-2.042		1	· ·

SD	1.074		
Coefficient of Variation	1.846		····
Skewness	2.709		
			ha Websterl + 110+110
F	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.314	Lilliefors Test Statistic	0.07
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.09
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
	-		
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.778	95% H-UCL	1.63
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.85
95% Adjusted-CLT UCL	0.813	97.5% Chebyshev (MVUE) UCL	2.32
95% Modified-t UCL	0.784	99% Chebyshev (MVUE) UCL	3.24
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0,425	Data appear Lognormal at 5% Significance Level	
Theta Star	1.369		
nu star	70.59		
Approximate Chi Square Value (.05)	52.25	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.77
Adjusted Chi Square Value	51.97	95% Jackknife UCL	0.77
		95% Standard Bootstrap UCL	0.77
Anderson-Darling Test Statistic	2.74	95% Bootstrap-t UCL	0.83
Anderson-Darling 5% Critical Value	0.835	95% Hall's Bootstrap UCL	0.82
Kolmogorov-Smirnov Test Statistic	0.166	95% Percentile Bootstrap UCL	0.79
Kolmogorov-Smirnov 5% Critical Value	0.105	95% BCA Bootstrap UCL	0.82
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	1.09
		97.5% Chebyshev(Mean, Sd) UCL	1.31
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.75
95% Approximate Gamma UCL	0.786		
95% Adjusted Gamma UCL	0.79		***************************************
Potential UCL to Use		Use 95% H-UCL	1.63
esult or 1/2 SDL (benzo(g,h,i)perylene)			
	General S	Statistics	
. Number of Valid Samples	83	Number of Unique Samples	73
Raw Statistics		Log-transformed Statistics	ne venekanakir-eta kultur
Minimum	0.0044	Minimum of Log Data	-5.418
Maximum	4.24	Maximum of Log Data	1.44
· Mean	0.324	Mean of log Data	-2.987
Median	0.0493	SD of log Data	2.03
SD	0.706		
Coefficient of Variation	2.182		
Skewness	3.466		
Chemical	3.700		
	elevent IIC	EL Statistics	

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.326	Lilliefors Test Statistic	0.179
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.097
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	·	Assuming Lognormal Distribution	
95% Student's-t UCL	0.452	95% H-UCL	0.854
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.934
95% Adjusted-CLT UCL	0.483	97.5% Chebyshev (MVUE) UCL	1.178
95% Modified-t UCL	0.457	99% Chebyshev (MVUE) UCL	1.657
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.355	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.911		-
nu star	58.96	почина в выправить увети привету опредержану в провежения можения принципального проведу по десетирательного принце	
Approximate Chi Square Value (.05)	42.3	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.45
Adjusted Chi Square Value	42.05	95% Jackknife UCL	0.452
		95% Standard Bootstrap UCL	0.449
Anderson-Darling Test Statistic	4.478	95% Bootstrap-t UCL	0.498
Anderson-Darling 5% Critical Value	0.852	95% Hall's Bootstrap UCL	0.504
Kolmogorov-Smirnov Test Statistic	0.172	95% Percentile Bootstrap UCL	0.453
Kolmogorov-Smirnov 5% Critical Value	0.106	95% BCA Bootstrap UCL	0.499
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.661
		97.5% Chebyshev(Mean, Sd) UCL	0.807
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.095
95% Approximate Gamma UCL	0.451		irrinuzione mango, erro
95% Adjusted Gamma UCL	0.454		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	1.095
sult or 1/2 SDL (benzo(k)fluoranthene)			
	General St		· priori
Number of Valid Samples	83	Number of Unique Samples	59
Raw Statistics	**************************************	Log-transformed Statistics	
Minimum	0.0068	Minimum of Log Data	-4.984
Maximum	4.25	Maximum of Log Data	1.447
Mean	0.24	Mean of log Data	-3.413
Median	0.0081	SD of log Data	1.887
SD	0.601		
Coefficient of Variation Skewness	2.507 4.388		er Draudersensen sakken selver selver selver
Normal Distribution Test	Relevant UCL	. Statistics Lognormal Distribution Test	
Lilliefors Test Statistic	0.349	Lilliefors Test Statistic	0.3
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.097
Data not Normal at 5% Significance Level	0.0370	Data not Lognormal at 5% Significance Level	0.037

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.349	95% H-UCL	0.38
95% UCLs (Adjusted for Skewness)	0.010	95% Chebyshev (MVUE) UCL	0.43
95% Adjusted-CLT UCL	0.382	97.5% Chebyshev (MVUE) UCL	0.54
95% Modified-t UCL	0.355	99% Chebyshev (MVUE) UCL	0.7
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.336	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.713		····
nu star	55.81		
Approximate Chi Square Value (.05)	39.64	Nonparametric Statistics	76 -76-(01)62016
Adjusted Level of Significance	0.0471	95% CLT UCL	0.3
Adjusted Chi Square Value	39.4	95% Jackknife UCL	0.3
respected of the equation of t		95% Standard Bootstrap UCL	0.3
Anderson-Darling Test Statistic	9.793	95% Bootstrap-t UCL	0.4
Anderson-Darling 5% Critical Value	0.856	95% Hall's Bootstrap UCL	0.4
Kolmogorov-Smirnov Test Statistic	0.285	95% Percentile Bootstrap UCL	0.3
Kolmogorov-Smirnov 763t Statistic	0.106	95% BCA Bootstrap UCL	0.3
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.5
Data not danima Distributed at 3% digninicance Le	2 A C I	97.5% Chebyshev(Mean, Sd) UCL	0.6
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.8
95% Approximate Gamma UCL	0.337	33 % Chebyshev (Mean, 3d) OCL	0.0
95% Adjusted Gamma UCL	0.339		
95% Adjusted Gamma OCL	0.339		,, *** .#********* \ 1 *******
		1	
Potential UCL to Use ult or 1/2 SDL (beryllium)		Use 97.5% Chebyshev (Mean, Sd) UCL	0.6
	General Stat		0.6
	General Stat		0.6 60
ult or 1/2 SDL (beryllium)		istics	
ult or 1/2 SDL (beryllium) Number of Valid Samples		istics Number of Unique Samples	60
Number of Valid Samples Raw Statistics	83	istics Number of Unique Samples Log-transformed Statistics	60
Number of Valid Samples Raw Statistics Minimum	0.0015	istics Number of Unique Samples Log-transformed Statistics Minimum of Log Data	60 -6.47 1.5
Number of Valid Samples Raw Statistics Minimum Maximum	0.0015	istics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	60 -6.47 1.5
Number of Valid Samples Raw Statistics Minimum Maximum Mean	0.0015 4.6 0.408	istics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	60 -6.47 1.5
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	0.0015 4.6 0.408 0.32	istics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	60 -6.47 1.5
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	0.0015 4.6 0.408 0.32 0.525	istics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	60 -6.47 1.5
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0015 4.6 0.408 0.32 0.525 1.287	Istics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	60 -6.47 1.5
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0015 4.6 0.408 0.32 0.525 1.287 6.344	Istics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	60 -6.47 1.5 -1.36
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0015 4.6 0.408 0.32 0.525 1.287 6.344	istics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-6.47 1.5 -1.36 1.1
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0015 4.6 0.408 0.32 0.525 1.287 6.344 Relevant UCL S	Istics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test	60 -6.47 1.5 -1.36 1.1
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Final Polistribution Test Lilliefors Test Statistic	0.0015 4.6 0.408 0.32 0.525 1.287 6.344	istics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data statistics Lognormal Distribution Test Lilliefors Test Statistic	60 -6.47 1.5 -1.36 1.1
Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Critical Value	0.0015 4.6 0.408 0.32 0.525 1.287 6.344	Istics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data tatistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value	60 -6.47 1.5 -1.36 1.1
Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level	0.0015 4.6 0.408 0.32 0.525 1.287 6.344	Log-transformed Statistics Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level	60 -6.47 1.5 -1.36 1.1
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	0.0015 4.6 0.408 0.32 0.525 1.287 6.344 Relevant UCL S 0.22 0.0973	istics Log-transformed Statistics	
Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	0.0015 4.6 0.408 0.32 0.525 1.287 6.344 Relevant UCL S 0.22 0.0973	istics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Italistics Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	60 -6.47 1.5 -1.36 1.1 0.0

^			
Gamma Distribution Test	4 400	Data Distribution	
k star (bias corrected) Theta Star	1.163 0.351	Data Follow Appr. Gamma Distribution at 5% Significance	ce Level
nu star			
Approximate Chi Square Value (.05)	162	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.503
Adjusted Chi Square Value	161.5	95% Jackknife UCL	0.504
		95% Standard Bootstrap UCL	0.50
Anderson-Darling Test Statistic	0.998	95% Bootstrap-t UCL	0.59
Anderson-Darling 5% Critical Value	0.778	95% Hall's Bootstrap UCL	0.90
Kolmogorov-Smirnov Test Statistic	0.096	95% Percentile Bootstrap UCL	0.51
Kolmogorov-Smirnov 5% Critical Value	0.101	95% BCA Bootstrap UCL	0.57
Data follow Appr. Gamma Distribution at 5% Significan	ce Level	95% Chebyshev(Mean, Sd) UCL	0.65
		97.5% Chebyshev(Mean, Sd) UCL	0.768
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.98
95% Approximate Gamma UCL	0.487		
95% Adjusted Gamma UCL	0.488		
Potential UCL to Use		Use 95% Approximate Gamma UCL	0.48
Number of Valid Samples	General St	Number of Unique Samples	44
inumber of value Samples	03	Number of Offique Samples	77
Raw Statistics		Log-transformed Statistics	
Minimum		Log transformed etailotte	
	0.0049	Minimum of Log Data	-5.318
Maximum	0.0049 0.0807		-5.318 -2.517
		Minimum of Log Data	
Maximum	0.0807 0.015 0.0056	Minimum of Log Data Maximum of Log Data	-2.517 -4.739
Maximum Mean Median SD	0.0807 0.015 0.0056 0.0197	Minimum of Log Data Maximum of Log Data Mean of log Data	-2.517 -4.739
Maximum Mean Median SD Coefficient of Variation	0.0807 0.015 0.0056 0.0197 1.313	Minimum of Log Data Maximum of Log Data Mean of log Data	-2.517 -4.739
Maximum Mean Median SD	0.0807 0.015 0.0056 0.0197	Minimum of Log Data Maximum of Log Data Mean of log Data	-2.517 -4.739
Maximum Mean Median SD Coefficient of Variation Skewness	0.0807 0.015 0.0056 0.0197 1.313	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-2.517 -4.739
Maximum Mean Median SD Coefficient of Variation Skewness	0.0807 0.015 0.0056 0.0197 1.313 1.973	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-2.517
Maximum Mean Median SD Coefficient of Variation Skewness	0.0807 0.015 0.0056 0.0197 1.313 1.973	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-2.517 -4.739
Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test	0.0807 0.015 0.0056 0.0197 1.313 1.973 Relevant UCL	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test	-2.517 -4.739 . 0.899
Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Lilliefors Test Statistic	0.0807 0.015 0.0056 0.0197 1.313 1.973 Relevant UCL	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Lilliefors Test Statistic	-2.517 -4.739 . 0.899
Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value	0.0807 0.015 0.0056 0.0197 1.313 1.973 Relevant UCL	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value	-2.517 -4.739 . 0.899
Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level	0.0807 0.015 0.0056 0.0197 1.313 1.973 Relevant UCL	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level	-2.517 -4.739 . 0.899
Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	0.0807 0.015 0.0056 0.0197 1.313 1.973 Relevant UCL 0.433 0.0973	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution	-2.517 -4.739 . 0.899 0.419 0.097
Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	0.0807 0.015 0.0056 0.0197 1.313 1.973 Relevant UCL 0.433 0.0973	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	-2.517 -4.739 . 0.899 0.419 0.09
Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.0807 0.015 0.0056 0.0197 1.313 1.973 Relevant UCL 0.433 0.0973	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-2.517 -4.739 . 0.89 . 0.41 . 0.09
Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL	0.0807 0.015 0.0056 0.0197 1.313 1.973 Relevant UCL 0.433 0.0973	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	-2.517 -4.739 . 0.899 . 0.419 0.099 0.011 0.012
Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test	0.0807 0.015 0.0056 0.0197 1.313 1.973 Relevant UCL 0.433 0.0973 0.0186 0.019 0.0186	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	-2.517 -4.739 . 0.899 . 0.411 . 0.09 . 0.010 . 0.010 . 0.022
Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL	0.0807 0.015 0.0056 0.0197 1.313 1.973 Relevant UCL 0.433 0.0973	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	-2.517 -4.739 . 0.89 . 0.41 . 0.09 . 0.01 . 0.02 . 0.02

Approximate Chi Square Value (.05)	142.6	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.018
Adjusted Chi Square Value	142.1	95% Jackknife UCL	0.018
		95% Standard Bootstrap UCL	0.018
Anderson-Darling Test Statistic	16.91	95% Bootstrap-t UCL	0.019
Anderson-Darling 5% Critical Value	0.781	95% Hall's Bootstrap UCL	0.018
Kolmogorov-Smirnov Test Statistic	0.438	95% Percentile Bootstrap UCL	0.018
Kolmogorov-Smirnov 5% Critical Value	0.101	95% BCA Bootstrap UCL	0.019
Data not Gamma Distributed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL	0.024
		97.5% Chebyshev(Mean, Sd) UCL	0.028
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.036
95% Approximate Gamma UCL	0.0181		
95% Adjusted Gamma UCL	0.0181		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.024
esult or 1/2 SDL (boron)			
	General	Statistics	A.11175 - 1411 1994 1941 1914 1914
Number of Valid Samples	83	Number of Unique Samples	63
Raw Statistics	***************************************	Log-transformed Statistics	***************************************
Minimum	0.475	Minimum of Log Data	-0.744
Maximum	54.4	Maximum of Log Data	3.996
Mean	4.662	Mean of log Data	0.66
Median	1.07	SD of log Data	1.351
SD	7.296		
Coefficient of Variation	1.565		
Skewness	4.319		
	Pelevant I I	CL Statistics	
Normal Distribution Test	Nelevant OC	Lognormal Distribution Test	
Lilliefors Test Statistic	0.283	Lilliefors Test Statistic	0.261
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.097
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	7.000
95% Student's-t UCL	5.994	95% H-UCL	7.093
95% UCLs (Adjusted for Skewness)	0.004	95% Chebyshev (MVUE) UCL	8.751
95% Adjusted-CLT UCL	6.384	97.5% Chebyshev (MVUE) UCL	10.49
95% Modified-t UCL	6.057	99% Chebyshev (MVUE) UCL	13.92
Gamma Distribution Test	10044-01-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	Data Distribution	w.1616.6
k star (bias corrected)	0.672	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	6.938		
nu star	111.5		
Approximate Chi Square Value (.05)	88.15	Nonparametric Statistics	***************************************
Adjusted Level of Significance	0.0471	95% CLT UCL	5.979
Adjusted Chi Square Value	87.78	95% Jackknife UCL	5.994
Adjusted Citi Square Value		·	
Adjusted Cili Oquale Value		95% Standard Bootstrap UCL	6.015

Anderson-Darling 5% Critical Value	0.8	95% Hall's Bootstrap UCL	12.01
Kolmogorov-Smirnov Test Statistic	0.251	95% Percentile Bootstrap UCL	6.051
Kolmogorov-Smirnov 5% Critical Value	0.102	95% BCA Bootstrap UCL	6.577
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	8.152
		97.5% Chebyshev(Mean, Sd) UCL	9.663
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	12.63
95% Approximate Gamma UCL	5,898		
95% Adjusted Gamma UCL	5.922		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	9.663
Result or 1/2 SDL (butyl benzyl phthalate)			
nesult of 112 opt (buty) belizy) pittialate;	000 00 Ph 1 Ph 1 Ph 1 Ph 1 Ph 1 Ph 1 Ph		
	General	Statistics	
Number of Valid Samples	83	Number of Unique Samples	45
Raw Statistics		Log-transformed Statistics	d tonings replication (Art December 2012)
Minimum	0.0054	Minimum of Log Data	-5.212
Maximum	0.297	Maximum of Log Data	-1.214
Mean	0.0187	Mean of log Data	-4.645
Median	0.0062	SD of log Data	0.914
SD	0.0388		
Coefficient of Variation	2,069		
Skewness	5.405		,
F Normal Distribution Test	Relevant U(CL Statistics Lognormal Distribution Test	
Lilliefors Test Statistic	0.381	Lilliefors Test Statistic	0.407
Lilliefors Critical Value	0.0973		0.407
Data not Normal at 5% Significance Level	0.03/3	Data not Lognormal at 5% Significance Level	0.037
A consiste No. west Disable at		A	
Assuming Normal Distribution	0.0050	Assuming Lognormal Distribution	0.010
95% Student's-t UCL	0.0258	1	0.018
95% UCLs (Adjusted for Skewness)	A	95% Chebyshev (MVUE) UCL	0.021
95% Adjusted-CLT UCL	0.0284		0.025
95% Modified-t UCL	0.0262	99% Chebyshev (MVUE) UCL	0.031
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.854	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	0.0219		*****************************
nu star	141.8		
Approximate Chi Square Value (.05)	115.3	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.025
Adjusted Chi Square Value	114.9	95% Jackknife UCL	0.025
	***************************************	95% Standard Bootstrap UCL	0.025
Anderson-Darling Test Statistic	16.12	95% Bootstrap-t UCL	0.034
Anderson-Darling 76st Critical Value	0.788	95% Hall's Bootstrap UCL	0.058
Kolmogorov-Smirnov Test Statistic	0.733	95% Percentile Bootstrap UCL	0.026
Kolmogorov-Smirnov 5% Critical Value	0.427	95% BCA Bootstrap UCL	0.020
		' 1	0.029
Data not Gamma Distributed at 5% Significance Le	∌V€I	95% Chebyshev (Mean, Sd) UCL	
		97.5% Chebyshev(Mean, Sd) UCL	0.045

n flanksilkust star Sastilatio till sin				Total Februari		Money desir			.	048 F08 941	
	Ass	uming Gan	l ıma Distribi	<u>l</u> ution				99% Che	byshev(Mea	an, Sd) UCL	0.061
	that has being a self anguar anguag anguag ang that the go			amma UCL	0.0231	, e-tracker		**************************************	***************************************		***************************************
	19 PF 18 PF	95%	Adjusted G	amma UCL	0.0231	a de la colonida de l			***************************************		
			iera abelio manara en en en manama ne asegera aca v ^a	**************************************		Control of the same of the strong of the str	1. 1911 - 1911 MARIE - 1920 - 1821 - 1821 - 1821 - 1821 - 1821 - 1821 - 1821 - 1821 - 1821 - 1821 - 1821 - 182	de verde de la compositione	-the alternational desired (BEP) the b	3-31	manus de la companya
		Potential U	JCL to Use			44 - 4	Us	e 95% Che	oyshev (Mea	an, Sd) UCL	0.037
esult or 1	/2 SDL (cad	lmium)									
, , , , , , , , , , , , , , , , , , ,					General	Statistics					
		Nı	ımber of Va	lid Samples	83		Access against the state of the	Nun	nber of Uniq	ue Samples	47
***************************************	***************************************	Raw St	atistics		bullion level, and the laterals—the of	aga makin mina ini karifi iyo abi i anta ia mariqi ata a	L	og-transforr	ned Statisti	CS	11-11-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
***************************************	***************************************			Minimum	0.0085	**************************************				of Log Data	-4.768
				Maximum	9.71					of Log Data	2.273
	and the second of the field for the first regularity and			Mean	0.464			***************************************	***************************************	of log Data	-2.309
***************************************	erkeld helder however for the constitution of			Median	0.23	ette anna material an de lande defensarie desse a				of log Data	2.023
				SD	1.141						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	***************************************		Coefficient	of Variation	2.458	***************************************	al est to a feature serve, where the fill his best or the blesses	Principles Missian part and canada decrease the distribution	an Kandila dan mia na androma da aldernad baddidi Merid		manyania ayinkania ayaa
				Skewness	6.868		- Milantin yli qualit de i penglir magam				and the same of th
· III · · · · · · · · · · · · · · · · ·	and the state of t				Polovant I I	L Statistics	and the construction of the construction of the state of	and the season of president of the forest of the following of the followin	alandra de la colonia de l		
		Normal Dist	ribution Tes		relevant oc	L Statistics		anormal Di	stribution Te	<u> </u>	
***************************************				est Statistic	0.345				HIS CHARLES AND A CONTRACT OF THE PARTY OF T	est Statistic	0.221
	· · · · · · · · · · · · · · · · · · ·			ritical Value	0.0973					ritical Value	0.097
······	Data not I	Normal at 5	% Significa	nce Level			Data not Le	ognormal at	5% Signific	ance Level	
	Ass	uming Norr					Assu	ming Logno	rmal Distrib		
	A=0/ 1	101 /4 !!		lent's-t UCL	0.672		40°440°1 10°1 10°1 140°1 140°1 140°1 140°1 140°1 140°1 140°1 140°1 140°1 140°1 140°1 140°1 140°1 140°1 140°1 1			95% H-UCL	1.636
	95% (JCLs (Adjus			0 771				hebyshev (N		1.796
errore a production and the		3	·	d-CLT UCL	0.771 0.688	gr y - 1, 11 () 14 (m a 1 km a 1 m a 1 m km a 1 m a 1 m a 1 m a 1 m a 1 m a 1 m a 1 m a 1 m a 1 m a 1 m a 1 m	· · · · · · · · · · · · · · · · · · ·		hebyshev (N nebyshev (N		2.263 3.181
			93% MO	umed-t OCL	0.000			99% C	nebysnev (n	NVOE) OCL	3.101
	G	amma Dist	ribution Tes	st			And the second s	Data Dis	tribution		· · · · · · · · · · · · · · · · · · ·
		tari e tra traka ke gada kuma gada kilinga gamban	k star (bias	s corrected)	0.416	Da	ta do not fo	llow a Disc	ernable Dist	ribution (0.0	5)
				Theta Star	1.116	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and the second of the second o				
				nu star	69.03						
	A	pproximate			50.91	, gadinis fanjt li 19 s kargingan na sila permaksik dersaas		Nonparamet	ric Statistic		4-F
****************	**************************************			Significance	0.0471		yet with a second constant	· ////	with the state of	% CLT UCL	0.67
	***************************************	Adju	sted Chi So	quare Value	50.63	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	htv			kknife UCL	0.672
and the second s	***************************************	A J	- D. " -		0.001			95% S	tandard Boo		0.665
				est Statistic	3.831	with the the transfer of the control		<u> </u>		strap-t UCL	1.001
			_	ritical Value est Statistic	0.837 0.195	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	19 -56 - 1864 - 1865 514 - 1865 515 - 1865 515 515 515 515 515 515 515 515 515 5	***************************************	% Hall's Boo		1.548 0.696
				ritical Value	0.195			**********************	6% BCA Boo		0.822
Data	~~~~	-	n and annual management was a	nificance Le	[oyshev(Mea	į	1.01
	. not damili	: : : : : : : : : : : : : : : : : :		,carice Le	-701		***************************************		oysnev(Mea		1.246
	Assı	uming Gam	ma Distribu	ıtion			····		oyshev(Mea		1.71
***************************************				amma UCL	0.629				, = , , , , , ,	,,	
				amma UCL	0.633		411416161616161616161616161616161616161	manage a contraction of the second	***************************************	w safe	
) was a post of the	
		Potential U	CL to Use			And an angle of angles	Us	e 99% Cheb	yshev (Mea	n, Sd) UCL	1.71

Maximum 1.54 Maximum Mean 0.0612 Mea Median 0.0051 SI SD 0.192 SI Coefficient of Variation 3.132 Skewness 6.428 Relevant UCL Statistics Normal Distribution Test Lognormal Distribution Test Lilliefors Critical Value 0.0973 Lilliefors Critical Value Data not Normal at 5% Significance Level Data not Lognormal at 5% Significance Level Assuming Normal Distribution Assuming Lognormal Distributions 95% Student's-t UCL 0.0962 95% UCLs (Adjusted for Skewness) 95% Chebyshev (95% Adjusted-CLT UCL 0.0962 95% Modified-t UCL 0.0987 95% Chebyshev (Gamma Distribution Test Data Distribution K star (blas corrected) 0.438 Data do not follow a Discernable Distribution K star (blas corrected) 0.438 Data do not follow a Discernable Distribution Adjusted Chi Square Value (0.05) 54.09 Nonparametric Statistic Adjusted Chi Square Value (0.5) 54.09 <th></th> <th></th>		
Raw Statistics		
Minimum Maximum Maximum Maximum Maximum Maximum Maximum Median 0.0612 Mea Median 0.0051 SI SI SD 0.192 Coefficient of Variation 3.132 Skewness 6.428 Skewness 6.428 Skewness 6.428 Skewness Maximum Maximum Maximum Median Maximum Median Maximum Median Maximum Median Maximum Median	nique Samples	68
Minimum 0.0043 Minimum Maximum 1.54 Maximum Maximum 1.54 Maximum Median 0.0612 Mea Median 0.0051 SI SI SI SI SI SI SI S	stics	
Maximum 1.54 Maximum Mean 0.0612 Mea Median 0.0051 SI SD 0.192 SI Coefficient of Variation 3.132 Skewness 6.428 Relevant UCL Statistics Normal Distribution Test Lognormal Distribution Test Lilliefors Critical Value 0.0973 Lilliefors Command Distribution Test Data not Normal at 5% Significance Level Data not Lognormal at 5% Significance Level Data not Lognormal Distribution Assuming Lognormal Distribution Significance Assuming Normal Distribution Assuming Lognormal Distribution Pst Gamma Distribution Test 0.0962 95% UCLs (Adjusted for Skewness) 95% Chebyshev (Distribution Pst Gamma Distribution Test Data Distribution Dest Data Distribution Distribution Test Gamma Distribution Test Data Distribution Data Distribution Distribution Distribution Test Data do not follow a Discernable Distribution Discernable Distribution Distr	m of Log Data	-5,444
Mean 0.0612 Mea Median 0.0051 SI SD 0.192 SI Coefficient of Variation 3.132 Skewness 6.428 Relevant UCL Statistics Normal Distribution Test Lognormal Distribution Test Lilliefors Critical Value 0.0973 Lilliefors Common Lilliefo	ım of Log Data	0.43
Median 0.0051 SI	ean of log Data	-4.24
Relevant UCL Statistics Relevant UCL Statistics	SD of log Data	1.4
Relevant UCL Statistics Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Data not Normal Distribution Assuming Normal Distribution P5% Student's-t UCL P5% UCLs (Adjusted for Skewness) P5% Adjusted-CLT UCL P5% Modified-t UCL P5% Modified-t UCL P5% Modified-t UCL P5% Modified-t UCL P5% Data not follow a Discernable Distribution R star (bias corrected) Approximate Chi Square Value Adjusted Chi Square Value Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling Test Statistic Anderson-Darling Test Statistic Normal Distributed at 5% Significance Level Relevant UCL Statistics Data Distribution Test Data not Lognormal Distribution Test Data Data not Collow a Discernable Distribution Test Data Distribution Data do not follow a Discernable Distribution Test Data Distribution Test Data Distribution Data do not follow a Discernable Distribution Significance Data not Gamma Distributed at 5% Significance Level Data not Gamma Distributed at 5% Significance Level		***************************************
Relevant UCL Statistics Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Data not Lognormal Distribution Assuming Lognormal Distribution P5% Student's-t UCL D0.0962 P5% UCLs (Adjusted for Skewness) P5% Adjusted-CLT UCL P55% Modified-t UCL P55% Modified-t UCL P55% Modified-t UCL P55% Modified-t UCL D0.0987 Data do not follow a Discernable Distribution R star (bias corrected) R Data do not follow a Discernable Distribution R Star (bias corrected) R Data do not follow a Discernable Distribution R Star (bias corrected) R Data do not follow a Discernable Distribution R Star (bias corrected) P5% Data do not follow a Discernable Distribution R Star (bias corrected) P54.09 R Nonparametric Statistic R Adjusted Level of Significance P5% Ja P5% Ja P5% Ja P5% Standard Bo P5% Ja R Anderson-Darling Test Statistic P5% P6% P6% B6A Bo R Kolmogorov-Smirnov Test Statistic P5% Significance Level P5% Chebyshev(Me		
Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Data not Normal at 5% Significance Level Data not Lognormal at 5% Significance Data not Lognormal Distribution Assuming Lognormal Distribution Assuming Lognormal Distribution Assuming Lognormal Distribution Distribution Distribution Distribution Distribution Distribution Data Distribution Da		
Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Data not Normal at 5% Significance Level Data not Lognormal Distribution Assuming Lognormal Distribution Assuming Lognormal Distribution Distribution Distribution Test Distribution Data Distribution Data Distribution Astar (blas corrected) Data Data do not follow a Discernable Distribution Data		
Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Data not Normal at 5% Significance Level Data not Lognormal at 5% Significance 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Chebyshev (95% Adjusted-CLT UCL 97.5% Chebyshev (95% Modified-t UCL 95% Modified-t UCL 95% Modified-t UCL 95% Modified-t UCL 95% Data do not follow a Discernable Discensible D	Test	
Lilliefors Critical Value Data not Normal at 5% Significance Level Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL 95% Data do not follow a Discernable Dis 1	Test Statistic	0.30
Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL 95% Chebyshev (0.0987 99% Chebyshev (0.438 Data do not follow a Discernable Distribution 10	Critical Value	0.09
95% Student's-t UCL		
95% Student's-t UCL		
95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Adjusted-CLT UCL 95% Modified-t UCL 95% Chebyshev (95% Cheb		
95% Adjusted-CLT UCL 0.112 97.5% Chebyshev (95% Modified-t UCL 0.0987 99% Chebyshev (Gamma Distribution Test Data Distribution k star (bias corrected) 0.438 Data do not follow a Discernable Disc	95% H-UCL	0.0
Gamma Distribution Test Bata do not follow a Discernable Discerna		0.0
Gamma Distribution Test k star (bias corrected) 0.438 Data do not follow a Discernable D	·	0.09
k star (bias corrected) 0.438 Data do not follow a Discernable Dis	(MVUE) UCL	0.12
Theta Star 0.14 nu star 72.73 Approximate Chi Square Value (.05) 54.09 Nonparametric Statistic Adjusted Level of Significance 0.0471 95 Adjusted Chi Square Value 53.81 95% Ja Adjusted Chi Square Value 53.81 95% Standard Bo Anderson-Darling Test Statistic 9.829 95% Boo Anderson-Darling 5% Critical Value 0.831 95% Hall's Bo Kolmogorov-Smirnov Test Statistic 0.284 95% Percentile Bo Kolmogorov-Smirnov 5% Critical Value 0.104 95% BCA Bo Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Me		
nu star 72.73 Approximate Chi Square Value (.05) 54.09 Nonparametric Statistic Adjusted Level of Significance 0.0471 95 Adjusted Chi Square Value 53.81 95% Ja Adjusted Chi Square Value 53.81 95% Standard Bo Anderson-Darling Test Statistic 9.829 95% Boo Anderson-Darling 5% Critical Value 0.831 95% Hall's Bo Kolmogorov-Smirnov Test Statistic 0.284 95% Percentile Bo Kolmogorov-Smirnov 5% Critical Value 0.104 95% BCA Bo Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Me	istribution (0.05	5)
Approximate Chi Square Value (.05) 54.09 Adjusted Level of Significance 0.0471 Adjusted Chi Square Value 53.81 95% Ja Adjusted Chi Square Value 53.81 95% Standard Bo Anderson-Darling Test Statistic 9.829 Anderson-Darling 5% Critical Value 0.831 Kolmogorov-Smirnov Test Statistic 0.284 Pata not Gamma Distributed at 5% Significance Level Nonparametric Statistic 9.54 95% Anderson-Darling 5% Critical Value 0.831 95% BCA Bo Data not Gamma Distributed at 5% Significance Level		***************************************
Adjusted Level of Significance 0.0471 95 Adjusted Chi Square Value 53.81 95% Ja 95% Standard Bo Anderson-Darling Test Statistic 9.829 95% Boo Anderson-Darling 5% Critical Value 0.831 95% Hall's Bo Kolmogorov-Smirnov Test Statistic 0.284 95% Percentile Bo Kolmogorov-Smirnov 5% Critical Value 0.104 95% BCA Bo Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Me	and the transfer control and where the control and the control	
Adjusted Chi Square Value 53.81 95% Ja 95% Standard Bo Anderson-Darling Test Statistic 9.829 95% Boo Anderson-Darling 5% Critical Value 0.831 95% Hall's Bo Kolmogorov-Smirnov Test Statistic 0.284 95% Percentile Bo Kolmogorov-Smirnov 5% Critical Value 0.104 95% BCA Bo Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Me	tics	g-11
Anderson-Darling Test Statistic 9.829 95% Boo Anderson-Darling 5% Critical Value 0.831 95% Hall's Bo Kolmogorov-Smirnov Test Statistic 0.284 95% Percentile Bo Kolmogorov-Smirnov 5% Critical Value 0.104 95% BCA Bo Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Me	95% CLT UCL	0.0
Anderson-Darling Test Statistic 9.829 95% Boo Anderson-Darling 5% Critical Value 0.831 95% Hall's Bo Kolmogorov-Smirnov Test Statistic 0.284 95% Percentile Bo Kolmogorov-Smirnov 5% Critical Value 0.104 95% BCA Bo Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Me	Jackknife UCL	0.0
Anderson-Darling 5% Critical Value 0.831 95% Hall's Bo Kolmogorov-Smirnov Test Statistic 0.284 95% Percentile Bo Kolmogorov-Smirnov 5% Critical Value 0.104 95% BCA Bo Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Me	Bootstrap UCL	0.0
Kolmogorov-Smirnov Test Statistic 0.284 95% Percentile Bo Kolmogorov-Smirnov 5% Critical Value 0.104 95% BCA Bo Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Me	ootstrap-t UCL	0.17
Kolmogorov-Smirnov 5% Critical Value 0.104 95% BCA Bo Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Me	Bootstrap UCL	0.24
Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Me	Bootstrap UCL	0.0
- '	Bootstrap UCL	0.12
97.5% Chehyshay/Me	lean, Sd) UCL	0.18
37.5% Chebyshov(Me	lean, Sd) UCL	0.19
Assuming Gamma Distribution 99% Chebyshev(Me	lean, Sd) UCL	0.27
95% Approximate Gamma UCL 0.0823		
95% Adjusted Gamma UCL 0.0827		
Potential UCL to Use Use 97.5% Chebyshev (Me	lean. Sd) UCL	0.19

			E SECTION
Mean	0.409	Mean of log Data	-2.736
Median	0.0493		2.052
SD	0.836	OD OT 109 Date	
Coefficient of Variation	2.044		
Skewness	3.079		.,
Normal Distribution Test	Relevant U(CL Statistics Lognormal Distribution Test	
Lilliefors Test Statistic	0.322	Lilliefors Test Statistic	0.098
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.097
Data not Normal at 5% Significance Level	0.0070	Data not Lognormal at 5% Significance Level	0.007
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.562	95% H-UCL	1.156
95% UCLs (Adjusted for Skewness)	0.002	95% Chebyshev (MVUE) UCL	1.256
95% Adjusted-CLT UCL	0.593	97.5% Chebyshev (MVUE) UCL	1.586
95% Modified-t UCL	0.567	99% Chebyshev (MVUE) UCL	2.233
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.358	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	1.142		
nu star	59.42		
Approximate Chi Square Value (.05)	42.7	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.56
Adjusted Chi Square Value	42.45	95% Jackknife UCL	0.562
		95% Standard Bootstrap UCL	0.557
Anderson-Darling Test Statistic	3.941	95% Bootstrap-t UCL	0.617
Anderson-Darling 5% Critical Value	0.851	95% Hall's Bootstrap UCL	0.604
Kolmogorov-Smirnov Test Statistic	0.203	95% Percentile Bootstrap UCL	0.57
Kolmogorov-Smirnov 5% Critical Value	0.106	95% BCA Bootstrap UCL	0.607
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.809
	and the Land	97.5% Chebyshev(Mean, Sd) UCL	0.982
Assuming Gamma Distribution	as professions	99% Chebyshev(Mean, Sd) UCL	1.322
95% Approximate Gamma UCL	0.569		
95% Adjusted Gamma UCL	0.572		
Potential UCL to Use	acceptance (VVV)	Use 99% Chebyshev (Mean, Sd) UCL	1.322
esult or 1/2 SDL (cobalt)	nion-parameter de la contraction de la contracti		
	General S	Statistics	
Number of Valid Samples	83	Number of Unique Samples	79
Raw Statistics		Log-transformed Statistics	
Minimum	0.0125	Minimum of Log Data	-4.382
Maximum	16	Maximum of Log Data	2.773
Mean	3.705	Mean of log Data	1.069
Median	3.49	SD of log Data	0.946
SD	2.249		1950 - 20 (Kenne <mark>ge Fantyspe</mark> fin 'Indyens
Coefficient of Variation	0.607		
Skewness	2.18		

			1000 C
	Relevant UCL S	Statictice	
Normal Distribution Test	Televant OCL C	Lognormal Distribution Test	
Lilliefors Test Statistic	0.107	Lilliefors Test Statistic	0.1
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.0
Data not Normal at 5% Significance Level	0.0070	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	······································
95% Student's-t UCL	4.116	95% H-UCL	5.7
95% UCLs (Adjusted for Skewness)	4.110	95% Chebyshev (MVUE) UCL	6.9
	4.175	97.5% Chebyshev (MVUE) UCL	7.9
95% Adjusted-CLT UCL			
95% Modified-t UCL	4.126	99% Chebyshev (MVUE) UCL	10
Gamma Distribution Test	antibul-treate until the cross street was a	Data Distribution	
k star (bias corrected)	2.153	Data do not follow a Discernable Distribution (0.05)
Theta Star	1.721		
nu star	357.5		********
Approximate Chi Square Value (.05)	314.7	Nonparametric Statistics	***************************************
Adjusted Level of Significance	0.0471	95% CLT UCL	4.
Adjusted Chi Square Value	313.9	95% Jackknife UCL	4.
		95% Standard Bootstrap UCL	4.
Anderson-Darling Test Statistic	1.75	95% Bootstrap-t UCL	4.1
Anderson-Darling 5% Critical Value	0.763	95% Hall's Bootstrap UCL	4.2
Kolmogorov-Smirnov Test Statistic	0.112	95% Percentile Bootstrap UCL	4.1
Kolmogorov-Smirnov 5% Critical Value	0.0993	95% BCA Bootstrap UCL	4.
Data not Gamma Distributed at 5% Significance Lo	evel	95% Chebyshev(Mean, Sd) UCL	4.7
		97.5% Chebyshev(Mean, Sd) UCL	5.2
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	6.
95% Approximate Gamma UCL	4.21		·
95% Adjusted Gamma UCL	4.219		
-,			o
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	4.
It or 1/2 SDL (copper)			
	General Stat	istics	
Number of Valid Samples	83	Number of Unique Samples	78
Raw Statistics	**************************************	Log-transformed Statistics	
Minimum	1.55	Minimum of Log Data	0.4
Maximum	216	Maximum of Log Data	5.3
Mean	27.98	Mean of log Data	2.9
Median	16.4	SD of log Data	0.8
SD	35.35		. D. 144 - C. 1111
Coefficient of Variation	1.263		***************************************
Skewness	3.794		
encontrol de la control de F	Relevant UCL S	otatistics .	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.26	Lilliefors Test Statistic	0.0
Fillipiota Lear argustica			

	514 ca 집중하다 전시 사이다는 그리고 등학교 모이			经主任债券点
Data not I	Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	
	The state of the s			
Ass	uming Normal Distribution	£ .	Assuming Lognormal Distribution	1-1-1-1
m yekitdirinin tarak nakan wan bir ki isti arabbi sabar nayan kiga ku isti arab	95% Student's-t UCL	34.43	95% H-UCL	32.45
95% l	JCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	38.82
- No. 18 - 18 - 18 - 18 - 18 - 18 - 18 - 18	95% Adjusted-CLT UCL	36.09	97.5% Chebyshev (MVUE) UCL	44.12
	95% Modified-t UCL	34.7	99% Chebyshev (MVUE) UCL	54.55
G	Samma Distribution Test		Data Distribution	
>-1141E(393)1141	k star (bias corrected)	1.342	Data appear Lognormal at 5% Significance Leve	
	Theta Star	20.85		
	nu star	222.7		
Α	pproximate Chi Square Value (.05)	189.2	Nonparametric Statistics	
	Adjusted Level of Significance	0.0471	95% CLT UCL	34.36
	Adjusted Chi Square Value	188.6	95% Jackknife UCL	34.43
	y age to the state of the state		95% Standard Bootstrap UCL	34.22
	Anderson-Darling Test Statistic	3.103	95% Bootstrap-t UCL	37.53
F	Anderson-Darling 5% Critical Value	0.773	95% Hall's Bootstrap UCL	39.93
er en geligen gewende her els fronte hage en de THA Mikeablede et en en foren gest agent en en ges	Kolmogorov-Smirnov Test Statistic	0.147	95% Percentile Bootstrap UCL	34.91
Koln	nogorov-Smirnov 5% Critical Value	0.1	95% BCA Bootstrap UCL	36.81
Data not Gamm	a Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	44.89
			97.5% Chebyshev(Mean, Sd) UCL	52.21
Assı	uming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	66.58
ATTER CONTRACTOR CONTR	95% Approximate Gamma UCL	32.94		,
	95% Adjusted Gamma UCL	33.04		**************************************
	Marina ayan gayan ta anaga barina kunun inga anagayan inga anaga ayan inga anaga anaga anaga anaga anaga anaga			
	D! 11101			
	Potential UCL to Use		Use 95% H-UCL	32.45
			Use 95% H-UCL	32.45
				32.45
	enz(a,h)anthracene)	General Sta	atistics	
		General Sta		32.45 78
esult or 1/2 SDL (dibe	enz(a,h)anthracene)	**********************************	atistics	
	enz(a,h)anthracene) Number of Valid Samples	**********************************	atistics Number of Unique Samples	
	enz(a,h)anthracene) Number of Valid Samples Raw Statistics	83	atistics Number of Unique Samples Log-transformed Statistics	78
	enz(a,h)anthracene) Number of Valid Samples Raw Statistics Minimum	0.0042	Atistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data	78
	Number of Valid Samples Raw Statistics Minimum Maximum	0.0042	Atistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	78 -5.466 0.49 -3.578
	Priz(a,h)anthracene) Number of Valid Samples Raw Statistics Minimum Maximum Mean	0.0042 1.64 0.155	Atistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	78 -5.466 0.49
	Panz(a,h)anthracene) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	0.0042 1.64 0.155 0.0061	Atistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	78 -5.466 0.49 -3.578
	Penz(a,h)anthracene) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	0.0042 1.64 0.155 0.0061 0.303	Atistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	78 -5.466 0.49 -3.578
	Penz(a,h)anthracene) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0042 1.64 0.155 0.0061 0.303 1.952 3.008	Atistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	78 -5.466 0.49 -3.578
esult or 1/2 SDL (dibe	Penz(a,h)anthracene) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0042 1.64 0.155 0.0061 0.303 1.952	Atistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	78 -5.466 0.49 -3.578
esult or 1/2 SDL (dibe	Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness	0.0042 1.64 0.155 0.0061 0.303 1.952 3.008	Atistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test	78 -5.466 0.49 -3.578 1.96
esult or 1/2 SDL (dibe	Panz(a,h)anthracene) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Formal Distribution Test Lilliefors Test Statistic	0.0042 1.64 0.155 0.0061 0.303 1.952 3.008	Atistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Lilliefors Test Statistic	78 -5.466 0.49 -3.578 1.96
esult or 1/2 SDL (dibe	Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness	0.0042 1.64 0.155 0.0061 0.303 1.952 3.008	Atistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test	78 -5.466 0.49 -3.578 1.96
esult or 1/2 SDL (dibe	Penz(a,h)anthracene) Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness Formal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value	0.0042 1.64 0.155 0.0061 0.303 1.952 3.008	Atistics Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level	78 -5.466 0.49 -3.578 1.96
esult or 1/2 SDL (dibe	Penz(a,h)anthracene) Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness Formal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value	0.0042 1.64 0.155 0.0061 0.303 1.952 3.008	Assuming Lognormal Distribution Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Statistics Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level	78 -5.466 0.49 -3.578
esult or 1/2 SDL (dibe	Panz(a,h)anthracene) Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness Formal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Normal at 5% Significance Level	0.0042 1.64 0.155 0.0061 0.303 1.952 3.008	Atistics Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level	78 -5.466 0.49 -3.578 1.96

		[12] [12] [14] [14] [15] [15] [15] [15] [15] [15] [15] [15	
95% Adjusted-CLT UCL	0.222	97.5% Chebyshev (MVUE) UCL	0.550
95% Modified-t UCL	0.212	99% Chebyshev (MVUE) UCL	0.77
Gamma Distribution Test	reaser (1985–1985–1985), i para darage, i para ta	Data Distribution	
k star (bias corrected)	0.38	Data do not follow a Discernable Distribution (0.0)	5)
Theta Star	0.408		
nu star	63.11		
Approximate Chi Square Value (.05)	45.83	Nonparametric Statistics	
Adjusted Level of Significance	0.0471		0.21
Adjusted Chi Square Value	45.57	95% Jackknife UCL	0.21
		95% Standard Bootstrap UCL	0.21
Anderson-Darling Test Statistic	6.569	95% Bootstrap-t UCL	0.229
Anderson-Darling 5% Critical Value	0.846	95% Hall's Bootstrap UCL	0.22
Kolmogorov-Smirnov Test Statistic	0.285	95% Percentile Bootstrap UCL	0.214
Kolmogorov-Smirnov 5% Critical Value	0.105	95% BCA Bootstrap UCL	0.222
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.3
	, and a state of the state of t	97.5% Chebyshev(Mean, Sd) UCL	0.36
Assuming Gamma Distribution	1.2 m H Me 1 m L m L m L m L m L m L m L m L m L m	99% Chebyshev(Mean, Sd) UCL	0.486
95% Approximate Gamma UCL	0.214		
95% Adjusted Gamma UCL	0.215		
Potential UCL to Use	-t	Use 97.5% Chebyshev (Mean, Sd) UCL	0.36
ult or 1/2 SDL (dibenzofuran)	General	Statistics	
ult or 1/2 SDL (dibenzofuran) Number of Valid Samples	General 83	Statistics Number of Unique Samples	48
			48
Number of Valid Samples		Number of Unique Samples Log-transformed Statistics	-5.083
Number of Valid Samples	83	Number of Unique Samples Log-transformed Statistics	
Number of Valid Samples Raw Statistics Minimum	0.0062	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-5.083
Number of Valid Samples Raw Statistics Minimum Maximum	0.0062 0.821	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-5.083 -0.197 -4.288
Raw Statistics Minimum Maximum Mean	0.0062 0.821 0.0378	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.083 -0.197 -4.288
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	0.0062 0.821 0.0378 0.0071	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.083 -0.197 -4.288
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	0.0062 0.821 0.0378 0.0071 0.107	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.083 -0.197 -4.288
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0062 0.821 0.0378 0.0071 0.107 2.831 6.111	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.083 -0.197 -4.288
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0062 0.821 0.0378 0.0071 0.107 2.831 6.111	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-5.083 -0.197
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0062 0.821 0.0378 0.0071 0.107 2.831 6.111	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-5.083 -0.197 -4.288
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0062 0.821 0.0378 0.0071 0.107 2.831 6.111	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data CL Statistics Lognormal Distribution Test	-5.083 -0.197 -4.288 1.133
Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness Normal Distribution Test Lilliefors Test Statistic	0.0062 0.821 0.0378 0.0071 0.107 2.831 6.111	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Lilliefors Test Statistic	-5.083 -0.197 -4.288 1.133
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level	0.0062 0.821 0.0378 0.0071 0.107 2.831 6.111	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data CL Statistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level	-5.083 -0.197 -4.288 1.133
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value	0.0062 0.821 0.0378 0.0071 0.107 2.831 6.111	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data CL Statistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value	-5.083 -0.197 -4.288 1.133 0.376 0.097
Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	0.0062 0.821 0.0378 0.0071 0.107 2.831 6.111 Relevant UC	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	-5.083 -0.197 -4.288 1.133 0.376 0.097
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0062 0.821 0.0378 0.0071 0.107 2.831 6.111 Relevant UC	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SL Statistics Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-5.083 -0.197 -4.288 1.133 -0.376 0.097
Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	0.0062 0.821 0.0378 0.0071 0.107 2.831 6.111 Relevant UC 0.384 0.0973	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	-5.083 -0.197 -4.288 1.133 0.376 0.099
Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	0.0062 0.821 0.0378 0.0071 0.107 2.831 6.111 Relevant UC 0.384 0.0973	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SL Statistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	-5.083 -0.197 -4.288 1.133

	4: Extending of		Falley City
Theta Star	0.0636	55.	
nu star			
Approximate Chi Square Value (.05)	1	Nonparametric Statistics	
Adjusted Level of Significance	İ	95% CLT UCL	0.057
Adjusted Chi Square Value	76.42	95% Jackknife UCL	0.057
		95% Standard Bootstrap UCL	0.056
Anderson-Darling Test Statistic	13.02	95% Bootstrap-t UCL	0.104
Anderson-Darling 5% Critical Value	0.808	95% Hall's Bootstrap UCL	0.15
Kolmogorov-Smirnov Test Statistic	0.378	95% Percentile Bootstrap UCL	0.058
Kolmogorov-Smirnov 5% Critical Value	1	95% BCA Bootstrap UCL	0.068
Data not Gamma Distributed at 5% Significance L	.evel	95% Chebyshev(Mean, Sd) UCL	0.089
		97.5% Chebyshev(Mean, Sd) UCL	0.111
Assuming Gamma Distribution	0.0400	99% Chebyshev(Mean, Sd) UCL	0.155
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.0486 0.0488		
95% Adjusted Gamma OCL	0.0488		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.111
esult or 1/2 SDL (dieldrin)			
	General :	Statistics	
Number of Valid Samples	83	Number of Unique Samples	57
Raw Statistics		Log-transformed Statistics	arija ar ayan ar ayan ayan ba
	7.0000E-5	Minimum of Log Data	-9.567
Maximum	0.0205	Maximum of Log Data	-3.887
Mean	9.9705E-4	Mean of log Data	-8.475
Median	8.3000E-5	SD of log Data	1.456
SD	0.0030		an han and den enter designation of the state of the four ends
Coefficient of Variation	3.053		
Skewness	5.171		
	Relevant UC		
Normal Distribution Test Lilliefors Test Statistic	0.38	Lognormal Distribution Test Lilliefors Test Statistic	0.314
Lilliefors Critical Value	<u> </u>	Lilliefors Critical Value	0.097
Data not Normal at 5% Significance Level	0.0973	Data not Lognormal at 5% Significance Level	0.037
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0015	95% H-UCL	9.2982E-4
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.001
95% Adjusted-CLT UCL	0.0017	97.5% Chebyshev (MVUE) UCL	0.001
95% Modified-t UCL	0.0015	99% Chebyshev (MVUE) UCL	0.001
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.411	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	0.0024		
nu star	68.17		
Approximate Chi Square Value (.05)	50.17	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.001
Adjusted Chi Square Value	49.9	95% Jackknife UCL	0.001

	Y 1365 2	95% Standard Bootstrap UCL	0.001
Anderson-Darling Test Statistic	12.18	95% Bootstrap-t UCL	0.002
Anderson-Darling 5% Critical Value	0.838	95% Hall's Bootstrap UCL	0.003
Kolmogorov-Smirnov Test Statistic	0.309	95% Percentile Bootstrap UCL	0.001
Kolmogorov-Smirnov 5% Critical Value	0.105	95% BCA Bootstrap UCL	0.001
Data not Gamma Distributed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL	0.002
		97.5% Chebyshev(Mean, Sd) UCL	0.003
Assuming Gamma Distribution	\$	99% Chebyshev(Mean, Sd) UCL	0.004
95% Approximate Gamma UCL	0.0013		
95% Adjusted Gamma UCL	0.0013		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.003
Result or 1/2 SDL (di-n-butyl phthalate)			
	General	Statistics	3873-101-14538-1850-1 ₂ 3346-3 ₁₋₁ -14-31-1843-1843-
Number of Valid Samples	83	Number of Unique Samples	55
Raw Statistics		Log-transformed Statistics	- 1444(444 1444) - 1444(444 1444)
Minimum	0.0126	Minimum of Log Data	-4.378
Maximum	0.753	Maximum of Log Data	-0.284
Mean	0.048	Mean of log Data	-3.781
Median	0.0143	SD of log Data	0.966
SD	0.102		uemennen, aum monimi
Coefficient of Variation	2.121		
Skewness	4.995		was 1100 and 1100 and 1000 and
	Relevant U0	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.375	Lilliefors Test Statistic	0.401
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.097
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	and the state of t
95% Student's-t UCL	0.0666	95% H-UCL	0.045
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.055
95% Adjusted-CLT UCL	0.0729	97.5% Chebyshev (MVUE) UCL	0.064
95% Modified-t UCL	0.0676	99% Chebyshev (MVUE) UCL	0.081
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.777	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	0.0618		
nu star	129		.,
Approximate Chi Square Value (.05)	103.7	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.066
Adjusted Chi Square Value	103.4	95% Jackknife UCL	0.066
	***************************************	95% Standard Bootstrap UCL	0.066
Anderson-Darling Test Statistic	15.92	95% Bootstrap-t UCL	0.083
Anderson-Darling 5% Critical Value	0.791	95% Hall's Bootstrap UCL	0.129
Kolmogorov-Smirnov Test Statistic	0.421	95% Percentile Bootstrap UCL	0.069
Kolmogorov-Smirnov 5% Critical Value	0.102	95% BCA Bootstrap UCL	0.074

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Data not Gamma Distributed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL	0.096
Data not Gamina Distributed at 3% Significance L	.6461	97.5% Chebyshev(Mean, Sd) UCL	0.09
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.15
95% Approximate Gamma UCL	0.0597	99% Criebysnev (Mean, Su) OCL	0.13
95% Adjusted Gamma UCL	0.0597		
93 % Aujusteu Gamma OCL	0.0399		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.096
Result or 1/2 SDL (endosulfan sulfate)			. was a second and a
	General S	itatistics	
Number of Valid Samples	83	Number of Unique Samples	63
Raw Statistics		Log-transformed Statistics	
	1.3250E-4	Minimum of Log Data	-8.929
Maximum	0.0713	Maximum of Log Data	-2.641
Mean	0.0713	Mean of log Data	-8.01
	1.5450E-4	SD of log Data	1.39
SD	0.0084	CD of log butter	
Coefficient of Variation	4.216		
Skewness	7.243		B-1411-1
	Relevant UC		- PHI HITTORY
Normal Distribution Test	0.404	Lognormal Distribution Test Lilliefors Test Statistic	0.34
Lilliefors Test Statistic Lilliefors Critical Value	0.424 0.0973	Lilliefors Critical Value	0.09
Data not Normal at 5% Significance Level	0.0373	Data not Lognormal at 5% Significance Level	0.09
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0035	95% H-UCL	0.00
95% UCLs (Adjusted for Skewness)	l	95% Chebyshev (MVUE) UCL	0.00
95% Adjusted-CLT UCL	0.0043	97.5% Chebyshev (MVUE) UCL	0.00
95% Modified-t UCL	0.0036	99% Chebyshev (MVUE) UCL	0.00
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.365	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.0054		
nu star	60.65		
Approximate Chi Square Value (.05)	43.74	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.00
Adjusted Chi Square Value	43.48	95% Jackknife UCL	0.00
		95% Standard Bootstrap UCL	0.00
Anderson-Darling Test Statistic	15.84	95% Bootstrap-t UCL	0.00
Anderson-Darling 5% Critical Value	0.849	95% Hall's Bootstrap UCL	0.00
Kolmogorov-Smirnov Test Statistic	0.343	95% Percentile Bootstrap UCL	0.00
Kolmogorov-Smirnov 5% Critical Value	0.106	95% BCA Bootstrap UCL	0.00
Data not Gamma Distributed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL	0.00
		97.5% Chebyshev(Mean, Sd) UCL	0.00
Assuming Gamma Distribution	<u> </u>	99% Chebyshev(Mean, Sd) UCL	0.01
95% Approximate Gamma UCL	0.0027		
95% Adjusted Gamma UCL	0.0027		

Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.00
· Control OOL to OOE		230 57.578 Chabyonev (Medil, 64) 532	
ult or 1/2 SDL (endrin aldehyde)			
	General Stati	istics	
Number of Valid Samples	83	Number of Unique Samples	69
Raw Statistics		Los transformed Statistics	
Raw Statistics Minimum	1 6000 4	Log-transformed Statistics Minimum of Log Data	-8.69
Maximum	0.0738	Maximum of Log Data	-2.60
e e e e e e e e e e e e e e e e e e e	0.0738	Mean of log Data	-7.72
Mean	1.9500E-4		-7.72 1.4
Median		SD of log Data	1.4
	0.0089		
Coefficient of Variation Skewness	3.782 6.88		***************************************
Normal Distribution Test	Relevant UCL S	tatistics Lognormal Distribution Test	
Lilliefors Test Statistic	0.403	Lilliefors Test Statistic	0.3
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.0
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0039	95% H-UCL	0.0
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0
95% Adjusted-CLT UCL	0.0047	97.5% Chebyshev (MVUE) UCL	0.0
95% Modified-t UCL	0.0041	99% Chebyshev (MVUE) UCL	0.0
Gamma Distribution Test		Data Distribution	Complements to print you
k star (bias corrected)	0.387	Data do not follow a Discernable Distribution (0.05)
Theta Star	0.0061		***************************************
nu star	64.22		#
Approximate Chi Square Value (.05)	46.78	Nonparametric Statistics	***************************************
Adjusted Level of Significance	0.0471	95% CLT UCL	0.0
Adjusted Chi Square Value	46.52	95% Jackknife UCL	0.0
		95% Standard Bootstrap UCL	0.0
Anderson-Darling Test Statistic	14.52	95% Bootstrap-t UCL	0.0
Anderson-Darling 5% Critical Value	0.844	95% Hall's Bootstrap UCL	0.0
Kolmogorov-Smirnov Test Statistic	0.363	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.105	95% BCA Bootstrap UCL	0.0
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.0
		97.5% Chebyshev(Mean, Sd) UCL	0.0
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0
95% Approximate Gamma UCL	0.0032		
95% Adjusted Gamma UCL	0.0032		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.00

Result or 1/2 SDL (endrin ketone)

		atistics	
Number of Valid Samples	83	Number of Unique Samples	67
Raw Statistics	2.1300E-4	Log-transformed Statistics	-8.45
Maximum		Minimum of Log Data Maximum of Log Data	-8.45 -3.91
Mean	0.0016	Mean of log Data	-3.91
	2.4500E-4	SD of log Data	1.3
SD	0.0034	Ob or log but	
Coefficient of Variation	2.05		
Skewness	ļ		
	Relevant UCL	Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.359	Lilliefors Test Statistic	0.3
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.0
Data not Normal at 5% Significance Level	L	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0,0023	95% H-UCL	0.0
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0
95% Adjusted-CLT UCL	0.0024	97.5% Chebyshev (MVUE) UCL	0.0
95% Modified-t UCL	0.0023	99% Chebyshev (MVUE) UCL	0.0
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.528	Data do not follow a Discernable Distribution (0.05)
Theta Star	0.0031		
nu star	87.68		
Approximate Chi Square Value (.05)	67.09	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.0
Adjusted Chi Square Value	66.77	95% Jackknife UCL	0.0
		95% Standard Bootstrap UCL	0.0
Anderson-Darling Test Statistic	13.72	95% Bootstrap-t UCL	0.0
Anderson-Darling 5% Critical Value	0.815	95% Hall's Bootstrap UCL	0.0
Kolmogorov-Smirnov Test Statistic	0.373	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.103	95% BCA Bootstrap UCL	0.0
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.0
A Distillution		97.5% Chebyshev (Mean, Sd) UCL	0.0
Assuming Gamma Distribution 95% Approximate Gamma UCL	0.0021	99% Chebyshev(Mean, Sd) UCL	0.00
95% Adjusted Gamma UCL	0.0021		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.0
ılt or 1/2 SDL (fluoranthene)			
	General Sta	tistics	
- West distribution of the control o	ALTERNATION AND AND AND AND AND AND AND AND AND AN		
Number of Valid Samples	83	Number of Unique Samples	78

		Tanga T	Table 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		11.5
		Minimum	0.0053	Minimum of Log Data	-5.231
		Maximum	14.2	Maximum of Log Data	2.653
***************************************		Mean	0.799	Mean of log Data	-2.284
	PHIRANGARIA (ARIA) TITATO PHIRA BIRA BIRA BIRA BIRA BIRA BIRA BIRA B	Median	0.0748		2.188
		SD	1.943		······································
	Coefficient o		2.431		
		Skewness	4.772		
		1			
d raybers para har sagarana da kufundunkan 💆 () j	Normal Distribution Test		lelevant U(CL Statistics Lognormal Distribution Test	
	Lilliefors Te	st Statistic	0.341	Lilliefors Test Statistic	0.089
	Lilliefors Cri		0.0973	Lilliefors Critical Value	0.097
alardalarina da anticolorida de la composição de la compo	Data not Normal at 5% Significan	j		Data appear Lognormal at 5% Significance Level	
***************************************	Assuming Normal Distributi			Assuming Lognormal Distribution	
	95% Stude	1	1.154	95% H-UCL	2.656
	95% UCLs (Adjusted for Skev	•		95% Chebyshev (MVUE) UCL	2.735
	95% Adjusted	-CLT UCL	1.269	97.5% Chebyshev (MVUE) UCL	3.477
	95% Modi	fied-t UCL	1.173	99% Chebyshev (MVUE) UCL	4.936
	Gamma Distribution Test			Data Distribution	740 gant 111 , 127 , Park de la lacte de la Lacte
	k star (bias	corrected)	0.326	Data appear Lognormal at 5% Significance Level	· · · · · · · · · · · · · · · · · · ·
		Theta Star	2.453		
		nu star	54.08		
	Approximate Chi Square \	/alue (.05)	38.19	Nonparametric Statistics	
	Adjusted Level of Si		0.0471	95% CLT UCL	1.15
	Adjusted Chi Squ		37.95	95% Jackknife UCL	1.154
	Adjusted Off Oqu	auto value	37.33	95% Standard Bootstrap UCL	1.149
	Anderson-Darling Te	ct Statistia	3.83	95% Bootstrap-t UCL	1.4
			0.859	95% Hall's Bootstrap UCL	2.632
_,	Anderson-Darling 5% Cri		0.839	95% Percentile Bootstrap UCL	1.187
	Kolmogorov-Smirnov Te				
	Kolmogorov-Smirnov 5% Cri		0.106	95% BCA Bootstrap UCL	1.304
Data	not Gamma Distributed at 5% Sigr	nificance Le	vel	95% Chebyshev(Mean, Sd) UCL	1.729
				97.5% Chebyshev(Mean, Sd) UCL	2.131
Marka Karafah diga karapangan pada da mara da karafa	Assuming Gamma Distributi			99% Chebyshev(Mean, Sd) UCL	2.921
***************************************	95% Approximate Ga		1.132		
	95% Adjusted Ga	mma UCL	1.139		
**************************************	Potential UCL to Use			Use 95% H-UCL	2.656
esult or 1/2	2 SDL (fluorene)		***************************************		
a.,enfo	Number of Valid	d Samples	General S	Statistics Number of Unique Samples	76
	Daw Order	1		Los Arraches de Charles de	
	Raw Statistics	Minimum	0.0043	Log-transformed Statistics Minimum of Log Data	-5.449
		wiitiiiiiiiiiiii	0.0043	- 1	
		Maxim	4 4 4 4	Maximum of Law Data	O 104
		Maximum	1.11	Maximum of Log Data	
		Maximum Mean Median	1.11 0.0515 0.0050	Maximum of Log Data Mean of log Data SD of log Data	0.104 -4.291 1.395

Coefficient of Variation	2.942	arte var di ini tili di sisani di ili di ini di sisani di ili di ini di	
Skewness	5.801		
	7-111	N. Cardinalia	***************************************
Normal Distribution Test	Relevant U	CL Statistics Lognormal Distribution Test	parameter no
Lilliefors Test Statistic	0.378	Lilliefors Test Statistic	0.31
Lilliefors Critical Value	0.0973		0.09
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0792	95% H-UCL	0.05
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.06
95% Adjusted-CLT UCL	0.0902		0.08
95% Modified-t UCL	0.0809		0.10
Gamma Distribution Test		Data Distribution	······································
k star (bias corrected)	0.473	Data do not follow a Discernable Distribution (0.0)	5)
Theta Star	0.109		-
nu star	78.47		
Approximate Chi Square Value (.05)	59.06	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.07
Adjusted Chi Square Value	58.76	95% Jackknife UCL	0.07
		95% Standard Bootstrap UCL	0.07
Anderson-Darling Test Statistic	9.551	95% Bootstrap-t UCL	0.13
Anderson-Darling 5% Critical Value	0.823	95% Hall's Bootstrap UCL	0.20
Kolmogorov-Smirnov Test Statistic	0.023	95% Percentile Bootstrap UCL	0.08
Kolmogorov-Smirnov 7 est Statistic	0.297	95% BCA Bootstrap UCL	0.09
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.12
Data not dannia Distributed at 5% diginicance Le	3401	97.5% Chebyshev(Mean, Sd) UCL	0.12
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.10
95% Approximate Gamma UCL	0.0684		U.Z
95% Adjusted Gamma UCL	0.0688		***************************************
95% Adjusted Gamma UCL	0.0088		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.15
			-
sult or 1/2 SDL (gamma-chlordane)			
	General		
· Number of Valid Samples	83	Number of Unique Samples	57
Raw Statistics		Log-transformed Statistics	
Minimum	1.1000E-4	Minimum of Log Data	-9.11
Maximum	0.0156	Maximum of Log Data	-4.16
Mean	8.2679E-4	Mean of log Data	-8.449
Median	1.2500E-4	SD of log Data	1.20
SD	0.0024		· • • • • • • • • • • • • • • • • • • •
Coefficient of Variation	2.992		
Skewness	4.837		
F	Relevant UC	CL Statistics	***************************************
Normal Distribution Test		Lognormal Distribution Test	***************************************

Lilliefors Test Statistic	0.411	Lilliefors Test Statistic	0.4
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.09
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	ac 42-7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	Assuming Lognormal Distribution	
95% Student's-t UCL	0.0012	95% H-UCL	6.1126E-
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	7,5378E-
95% Adjusted-CLT UCL	0.0014	97.5% Chebyshev (MVUE) UCL	8.9135E-
95% Modified-t UCL	0.0013	99% Chebyshev (MVUE) UCL	0.00
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.465	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	0.0017		
nu star	77.18		
Approximate Chi Square Value (.05)	57.94	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.00
Adjusted Chi Square Value	57.65	95% Jackknife UCL	0.00
		95% Standard Bootstrap UCL	0.00
Anderson-Darling Test Statistic	19.32	95% Bootstrap-t UCL	0.00
Anderson-Darling 5% Critical Value	0.825	95% Hall's Bootstrap UCL	0.00
Kolmogorov-Smirnov Test Statistic	0.428	95% Percentile Bootstrap UCL	0.00
Kolmogorov-Smirnov 5% Critical Value	0.104	95% BCA Bootstrap UCL	0.00
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.002
		97.5% Chebyshev(Mean, Sd) UCL	0.002
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.003
95% Approximate Gamma UCL	0.0011		
95% Adjusted Gamma UCL	0.0011		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.002
esult or 1/2 SDL (indeno(1,2,3-cd)pyrene)			
	General Sta	tistics	
Number of Valid Samples	83	Number of Unique Samples	78
Raw Statistics	1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	Log-transformed Statistics	
Minimum	0.0071	Minimum of Log Data	-4.948
Maximum	6.49	Maximum of Log Data	1.87
Mean	0.47	Mean of log Data	-2.172
Median	0.11	SD of log Data	1.82
SD	0.94		
Coefficient of Variation	2		
Skewness	3.998		
Normal Distribution Test	Relevant UCL S	Statistics Lognormal Distribution Test	······································
Lilliefors Test Statistic	0.319	Lilliefors Test Statistic	0.156
**************************************		Lilliefors Critical Value	0.150
Lilliefors Critical Value Data not Normal at 5% Significance Level	0.0973	Data not Lognormal at 5% Significance Level	0.09
Assuming Normal Distribution		Assuming Lognormal Distribution	

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95% Student's-t UC	L 0.642	95% H-UCL	1.122
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.30
95% Adjusted-CLT UC	L 0.688	97.5% Chebyshev (MVUE) UCL	1.62
95% Modified-t UC	L 0.649	99% Chebyshev (MVUE) UCL	2.25
Gamma Distribution Test	***************************************	Data Distribution	nga na proposa na manana ana ana ana ana ana ana ana
k star (bias corrected	i) 0.446	Data do not follow a Discernable Distribution (0.0	15)
Theta Sta	ar 1.053		
nu sta	74.09		
Approximate Chi Square Value (.05	5) 55.27	Nonparametric Statistics	
Adjusted Level of Significanc	e 0.0471	95% CLT UCL	0.64
Adjusted Chi Square Valu	e 54.98	95% Jackknife UCL	0.642
		95% Standard Bootstrap UCL	0.63
Anderson-Darling Test Statisti	c 3.485	95% Bootstrap-t UCL	0.72
Anderson-Darling 5% Critical Valu	e 0.829	95% Hall's Bootstrap UCL	0.81
Kolmogorov-Smirnov Test Statisti	c 0.196	95% Percentile Bootstrap UCL	0.65
Kolmogorov-Smirnov 5% Critical Valu	e 0.104	95% BCA Bootstrap UCL	0.69
Data not Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	0.92
the first of the state of the s		97.5% Chebyshev(Mean, Sd) UCL	1.11
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.49
95% Approximate Gamma UC	L 0.63		
95% Adjusted Gamma UC	•		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	1.11
or 1/2 SDL (iron)			
		Statistics	
or 1/2 SDL (iron) . Number of Valid Sample		Statistics Number of Unique Samples	73
		Y	73
Number of Valid Sample	s 83	Number of Unique Samples	
Number of Valid Sample Raw Statistics	s 83 n 3450	Number of Unique Samples Log-transformed Statistics	8.14
Number of Valid Sample Raw Statistics Minimum	s 83 n 3450 n 77100	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	8.140 11.25
Number of Valid Sample Raw Statistics Minimun Maximun	s 83 n 3450 n 77100 n 16285	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	8.14 11.25 9.54
Number of Valid Sample: Raw Statistics Minimur Maximun Meal	s 83 n 3450 n 77100 n 16285 n 13400	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	8.14 11.25 9.54
Number of Valid Sample Raw Statistics Minimum Maximum Meai	s 83 n 3450 n 77100 n 16285 n 13400 D 11193	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	8.140 11.25
Number of Valid Sample: Raw Statistics Minimum Maximum Meal Media	s 83 n 3450 n 77100 n 16285 n 13400 D 11193 n 0.687	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	8.14 11.25 9.54
Number of Valid Sample: Raw Statistics Minimum Maximum Meal Media St Coefficient of Variation	s 83 n 3450 n 77100 n 16285 n 13400 D 11193 n 0.687	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	8.14(11.25 9.54(
Number of Valid Sample: Raw Statistics Minimum Maximum Meal Media St Coefficient of Variation	s 83 n 3450 n 77100 n 16285 n 13400 D 11193 n 0.687 s 3.11	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	8.146 11.25 9.548
Number of Valid Sample: Raw Statistics Minimum Maximum Media Media St Coefficient of Variation Skewness	s 83 n 3450 n 77100 n 16285 n 13400 0 11193 n 0.687 s 3.11	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	8.144 11.25 9.544 0.52
Number of Valid Sample: Raw Statistics Minimum Maximum Media St Coefficient of Variation Skewness Normal Distribution Test Lilliefors Test Statistic	8 83 n 3450 n 77100 n 16285 n 13400 D 11193 n 0.687 s 3.11 Relevant UC	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data CL Statistics Lognormal Distribution Test Lilliefors Test Statistic	8.144 11.25 9.544 0.52
Number of Valid Sample: Raw Statistics Minimum Maximum Median Median Statistics Coefficient of Variation Skewness Normal Distribution Test	8 83 n 3450 n 77100 n 16285 n 13400 D 11193 n 0.687 s 3.11 Relevant UC	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data CL Statistics Lognormal Distribution Test	8.14 11.25 9.54 0.52 0.095 0.095
Raw Statistics Raw Statistics Minimum Maximum Median Statistics Coefficient of Variation Skewness Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level	8 83 n 3450 n 77100 n 16285 n 13400 D 11193 n 0.687 s 3.11 Relevant UC	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data appear Lognormal at 5% Significance Leve	8.14 11.25 9.54 0.52 0.095 0.095
Number of Valid Sample: Raw Statistics Minimum Maximum Medial SC Coefficient of Variation Skewnes: Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	8 83 n 3450 n 77100 n 16285 n 13400 0 11193 n 0.687 s 3.11 Relevant U0 0 0.205 e 0.0973	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data appear Lognormal at 5% Significance Leve	8.144 11.25 9.544 0.52 0.095 0.097
Number of Valid Sample: Raw Statistics Minimum Maximum Media St Coefficient of Variation Skewness Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCI	8 83 n 3450 n 77100 n 16285 n 13400 0 11193 n 0.687 s 3.11 Relevant U0 0 0.205 e 0.0973	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lilliefors Test Statistic Lilliefors Critical Value Data appear Lognormal at 5% Significance Leve Assuming Lognormal Distribution 95% H-UCL	8.146 11.25 9.548 0.52 0.095 0.095
Number of Valid Sample: Raw Statistics Minimum Maximum Medial SC Coefficient of Variation Skewnes: Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	8 83 n 3450 n 77100 n 16285 n 13400 0 11193 n 0.687 s 3.11 Relevant U0 0 0.205 e 0.0973	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lilliefors Test Statistic Lilliefors Critical Value Data appear Lognormal at 5% Significance Leve Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	8.146 11.25 9.548 0.52 0.095 0.097

Gamma Distribution Test		Data Distribution	
k star (bias corrected)	3.376	Data appear Lognormal at 5% Significance Leve	əl
Theta Star	4824		
nu star	560.3		
Approximate Chi Square Value (.05)	506.4	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	18306
Adjusted Chi Square Value	505.5	95% Jackknife UCL	18329
		95% Standard Bootstrap UCL	18299
Anderson-Darling Test Statistic	2.12	95% Bootstrap-t UCL	18935
Anderson-Darling 5% Critical Value	0.758	95% Hall's Bootstrap UCL	19503
Kolmogorov-Smirnov Test Statistic	0.137	95% Percentile Bootstrap UCL	18453
Kolmogorov-Smirnov 5% Critical Value	0.0987	95% BCA Bootstrap UCL	18869
Data not Gamma Distributed at 5% Significance Lo	evel	95% Chebyshev(Mean, Sd) UCL	21640
		97.5% Chebyshev(Mean, Sd) UCL	23957
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	28509
95% Approximate Gamma UCL	18019	99 % Chebyshev (Mean, 30) OCL	20003
95% Adjusted Gamma UCL	18051		
			······································
Potential UCL to Use		Use 95% H-UCL	17845
ult or 1/2 SDL (lead)			
	General		
Number of Valid Samples	83	Number of Unique Samples	80
Raw Statistics	afronson ordinaliting Marina Harri	Log-transformed Statistics	***************************************
Minimum	2.82	Minimum of Log Data	1.03
Maximum	643	Maximum of Log Data	6.46
Mean	69.61	Mean of log Data	3.58
Median	34.4	SD of log Data	1.07
SD	112.8		
Coefficient of Variation	1.62		
Skewness	3.653		
F	Relevant UC	CL Statistics	W. 2. 2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.277	Lilliefors Test Statistic	0.07
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.09
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	d
Assuming Normal Distribution	1.000,000,000,000,000,000,000,000,000,00	Assuming Lognormal Distribution	note the transfer of the throughout
95% Student's-t UCL	90.2	95% H-UCL	84.5
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	103.5
95% Adjusted-CLT UCL	95.27	97.5% Chebyshev (MVUE) UCL	120.8
0.000	91.03	99% Chebyshev (MVUE) UCL	154.8
95% Modified-t UCL			
Gamma Distribution Test		Data Distribution	
Gamma Distribution Test	0.864		<u>.</u>
Gamma Distribution Test k star (bias corrected)		Data Distribution Data appear Lognormal at 5% Significance Leve	1
Gamma Distribution Test	0.864 80.56 143.4		ıl

Adjusted Level of Significance	0.0471	95% CLT UCL	89.97
Adjusted Chi Square Value	116.3	95% Jackknife UCL	90.2
		95% Standard Bootstrap UCL	89.75
Anderson-Darling Test Statistic	3.258	95% Bootstrap-t UCL	100.5
Anderson-Darling 5% Critical Value	0.787	95% Hall's Bootstrap UCL	94.9
Kolmogorov-Smirnov Test Statistic	0.139	95% Percentile Bootstrap UCL	91.31
Kolmogorov-Smirnov 5% Critical Value	0.101	95% BCA Bootstrap UCL	95.36
Data not Gamma Distributed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL	123.6
		97.5% Chebyshev(Mean, Sd) UCL	146.9
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	192.8
95% Approximate Gamma UCL	85.51		Manager Andrew
95% Adjusted Gamma UCL	85.82		

Potential UCL to Use		Use 95% H-UCL	84.5
ult or 1/2 SDL (lithium)			
	General S	Statistics	ind later to start of 12 to the party relief to
Number of Valid Samples	83	Number of Unique Samples	80
Raw Statistics		Log-transformed Statistics	
Minimum	0.65	Minimum of Log Data	-0.431
Maximum	28	Maximum of Log Data	3.33
Mean	7.856	Mean of log Data	1.76
		-	
Median	6.44	SD of log Data	0.84
SD	5.715		prijer ger weite in de bester territori
Coefficient of Variation	0.728		
Skewness	1.032		
	Relevant UC		
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.148	Lilliefors Test Statistic	0.07
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.09
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	8.899	95% H-UCL	10.12
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	12.11
95% Adjusted-CLT UCL	8.963	97.5% Chebyshev (MVUE) UCL	13.77
95% Modified-t UCL	8.911	99% Chebyshev (MVUE) UCL	17.03
53% Modified-t OCL	0.311	33% Chebyshev (WVOL) OCL	
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.749	Data appear Gamma Distributed at 5% Significance L	_evei
Theta Star	4.492		
nu star	290.3		******************
Approximate Chi Square Value (.05)	251.9	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	8.88
Adjusted Chi Square Value	251.2	95% Jackknife UCL	8.89
		95% Standard Bootstrap UCL	8.8
Anderson-Darling Test Statistic	0.362	95% Bootstrap-t UCL	9.04
Anderson-Darling 5% Critical Value	0.766	95% Hall's Bootstrap UCL	9.04

Kolmogorov-Smirnov Test Statistic	0.0621	95% Percentile Bootstrap UCL	8.862
Kolmogorov-Smirnov 5% Critical Value	0.0996	95% BCA Bootstrap UCL	9.001
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	10.59
		97.5% Chebyshev(Mean, Sd) UCL	11.77
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	14.1
95% Approximate Gamma UCL	9.055		etrocomotologo kolpdo cetopopologoco
95% Adjusted Gamma UCL	9.078		art og a gant letter tarter av sage a
Potential UCL to Use		Use 95% Approximate Gamma UCL	9.055
ult or 1/2 SDL (manganese)			
	General S	tatistics	
Number of Valid Samples	83	Number of Unique Samples	71
Raw Statistics		Log-transformed Statistics	***************************************
Minimum	59.3	Minimum of Log Data	4.083
Maximum	892	Maximum of Log Data	6.793
Mean	257.4	Mean of log Data	5.455
Median	224	SD of log Data	0.426
SD	129.3		
Coefficient of Variation	0.502		
Skewness	2.305		gar-ge-mmynggmanna
Normal Distribution Test Lilliefors Test Statistic	Relevant UCI 0.196	L Statistics Lognormal Distribution Test Lilliefors Test Statistic	0.102
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.097
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	281.1	95% H-UCL	278.9
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	310.2
95% Adjusted-CLT UCL	284.6	97.5% Chebyshev (MVUE) UCL	333.7
95% Modified-t UCL	281.7	99% Chebyshev (MVUE) UCL	379.8
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	5.208	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	49.43		
nu star	004.0		***************************************
ing start	864.6		
Approximate Chi Square Value (.05)	797.4	Nonparametric Statistics	
		Nonparametric Statistics 95% CLT UCL	280.8
Approximate Chi Square Value (.05)	797.4		280.8 281.1
Approximate Chi Square Value (.05) Adjusted Level of Significance	797.4 0.0471	95% CLT UCL	Market Mr. Press Mare - population
Approximate Chi Square Value (.05) Adjusted Level of Significance	797.4 0.0471	95% CLT UCL 95% Jackknife UCL	281.1
Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value	797.4 0.0471 796.2	95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL	281.1 280.6
Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic	797.4 0.0471 796.2 1.874	95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL	281.1 280.6 288.2
Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value	797.4 0.0471 796.2 1.874 0.754	95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL	281.1 280.6 288.2 288.5
Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic	797.4 0.0471 796.2 1.874 0.754 0.132 0.0983	95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL	281.1 280.6 288.2 288.5 282.3
Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value	797.4 0.0471 796.2 1.874 0.754 0.132 0.0983	95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL	281.1 280.6 288.2 288.5 282.3 286.3

95% Approximate Gamma UCL	279.1	·	and a second contract of the second of the s
95% Adjusted Gamma UCL	279.5		
Potential UCL to Use		Use 95% Student's-t UCL	281.1
		or 95% Modified-t UCL	281.7
ult or 1/2 SDL (mercury)			
Number of Valid Samples	General 9	Statistics Number of Unique Samples	55
	I		
Raw Statistics	***************************************	Log-transformed Statistics	en francisco es de rétion e
Minimum	0.001	Minimum of Log Data	-6.90
Maximum	0.66	Maximum of Log Data	-0.41
Mean	0.0227	Mean of log Data	-4.95
Median	0.0065	SD of log Data	1.3
SD	0.0752		######################################
Coefficient of Variation	3.315		***************************************
Skewness	7.742		
	Relevant LIC	DL Statistics	www.vanan
Normal Distribution Test	TOO TOO	Lognormal Distribution Test	
Lilliefors Test Statistic	0.387	Lilliefors Test Statistic	0.0
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.09
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	<u> </u>
Assuming Normal Distribution	· · · · · · · · · · · · · · · · · · ·	Assuming Lognormal Distribution	
95% Student's-t UCL	0.0364	95% H-UCL	0.0
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0
95% Adjusted-CLT UCL	0.0437	97.5% Chebyshev (MVUE) UCL	0.0
95% Modified-t UCL	0.0376	99% Chebyshev (MVUE) UCL	0.0
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.528	Data appear Lognormal at 5% Significance Leve	
Theta Star	0.0429		
nu star	87.68		
Approximate Chi Square Value (.05)	67.1	Nonparametric Statistics	
Adjusted Chi Square Volus	0.0471	95% CLT UCL	0.0
Adjusted Chi Square Value	66.78	95% Jackknife UCL	0.0
Anderson-Darling Test Statistic	5.016	95% Standard Bootstrap UCL 95% Bootstrap-t UCL	0.0
Anderson-Darling 1est Statistic Anderson-Darling 5% Critical Value	0.815	95% Bootstrap-t OCL	0.0
Kolmogorov-Smirnov Test Statistic	0.208	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.103	95% BCA Bootstrap UCL	0.04
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.0
		97.5% Chebyshev(Mean, Sd) UCL	0.0
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.10
95% Approximate Gamma UCL	0.0296		
95% Adjusted Gamma UCL	0.0298		e
			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Potential UCL to Use		Use 95% H-UCL	0.02

sult or 1/2 SDL (molybdenum)			
	General S	Statistics	
Number of Valid Samples	83	Number of Unique Samples	67
Raw Statistics	-	Log-transformed Statistics	***************************************
Minimum	0.034	Minimum of Log Data	-3.381
Maximum	8.42	Maximum of Log Data	2.13
Mean	1.306	Mean of log Data	-0.575
Median	0.91	SD of log Data	1.52
SD	1.588	OD OI TO DELLO	1.02
Coefficient of Variation	1.216		
Skewness	2.126		
		J	
	Relevant UC		
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.23	Lilliefors Test Statistic	0.13
Lilliefors Critical Value Data not Normal at 5% Significance Level	0.0973	Lilliefors Critical Value Data not Lognormal at 5% Significance Level	0.09
Data not Notifial at 3 % Significance Level		Data not cognomial at 3% significance rever	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	1.596	95% H-UCL	2.85
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	3.49
95% Adjusted-CLT UCL	1.637	97.5% Chebyshev (MVUE) UCL	4.25
95% Modified-t UCL	1.603	99% Chebyshev (MVUE) UCL	5.73
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.698	Data appear Gamma Distributed at 5% Significance L	_evel
Theta Star	1.872		
nu star	115.8		
Approximate Chi Square Value (.05)	91.98	Nonparametric Statistics	4
Adjusted Level of Significance	0.0471	95% CLT UCL	1.59
Adjusted Chi Square Value	91.61	95% Jackknife UCL	1.59
	0.05	95% Standard Bootstrap UCL	1.58
Anderson-Darling Test Statistic	0.65	95% Bootstrap-t UCL	1.66
Anderson-Darling 5% Critical Value	0.797	95% Hall's Bootstrap UCL	1.63
Kolmogorov-Smirnov Test Statistic	0.0752	95% Percentile Bootstrap UCL	1.59
Kolmogorov-Smirnov 5% Critical Value	0.102	95% BCA Bootstrap UCL	1.64
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	2.06
Assurable October 51 1 1 1 1 1		97.5% Chebyshev(Mean, Sd) UCL	2.39
Assuming Gamma Distribution	1.045	99% Chebyshev(Mean, Sd) UCL	3.04
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	1.645 1.652		
co.a. ajados damina oc			
		Use 95% Approximate Gamma UCL	1.64

General Statistics

Number of Valid Samples	83	Number of Unique Samples	67
Raw Statistics	\	Log-transformed Statistics	
Minimum	2.84	Minimum of Log Data	1.044
Maximum	36.7	Maximum of Log Data	3.603
Mean	11.64	Mean of log Data	2.373
Median	11.2	SD of log Data	0.411
SD	4.938		
Coefficient of Variation	0.424		
Skewness	1.825		
	Relevant U	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.13	Lilliefors Test Statistic	0.087
Lilliefors Critical Value	0.0973		0.097
Data not Normal at 5% Significance Level	0.0070	Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	12.54	95% H-UCL	12.67
95% UCLs (Adjusted for Skewness)	\$	95% Chebyshev (MVUE) UCL	14.05
95% Adjusted-CLT UCL	12.65	97.5% Chebyshev (MVUE) UCL	15.08
95% Modified-t UCL	12.56	99% Chebyshev (MVUE) UCL	17.1
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	6.095	Data appear Gamma Distributed at 5% Significance I	evel
Theta Star	1.91		
nu star			
Approximate Chi Square Value (.05)	938.9	Nonparametric Statistics	
Adjusted Level of Significance	0.0471		12.53
Adjusted Chi Square Value	937.7	95% Jackknife UCL	12.54
Adjusted of Oquale Value	007.7	95% Standard Bootstrap UCL	12.55
Anderson-Darling Test Statistic	0.505	95% Bootstrap-t UCL	12.68
	0.754	95% Hall's Bootstrap UCL	12.78
Anderson-Darling 5% Critical Value			
Kolmogorov-Smirnov Test Statistic	0.0926	• 1	12.53
Kolmogorov-Smirnov 5% Critical Value	0.0982	· I	12.6
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	14
		97.5% Chebyshev(Mean, Sd) UCL	15.02
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	17.03
95% Approximate Gamma UCL	12.54		
95% Adjusted Gamma UCL	12.56		
Potential UCL to Use		Use 95% Approximate Gamma UCL	12.54
esult or 1/2 SDL (phenanthrene)			
	General		
Number of Valid Samples	83	Number of Unique Samples	74
Raw Statistics		Log-transformed Statistics	
Minimum	0.0057	Minimum of Log Data	-5.159
Maximum	12.6	Maximum of Log Data	2.534

en ja karan di sesa paggapatan kentan da tahun berata da tahun sebesah da t	rang in wasawa 📧	specifical Made to the control of th	n ngalungsaka
Mean	0.512	Mean of log Data	-2.572
Median	0.063	SD of log Data	2.001
Wedan	1.543	SD of log Data	2.001
Coefficient of Variation	3,013		
Skewness	6.446		
Skewiless	0.440	·	
	Relevant UC		
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.371	Lilliefors Test Statistic	0.132
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.097
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.794	95% H-UCL	1.186
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.312
95% Adjusted-CLT UCL	0.919	97.5% Chebyshev (MVUE) UCL	1.651
95% Modified-t UCL	0.814	99% Chebyshev (MVUE) UCL	2.317
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.348	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	1.472		
nu star	57.78		
Approximate Chi Square Value (.05)	41.31	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.791
Adjusted Chi Square Value	41.06	95% Jackknife UCL	0.794
		95% Standard Bootstrap UCL	0.795
Anderson-Darling Test Statistic	4.225	95% Bootstrap-t UCL	1.251
Anderson-Darling 5% Critical Value	0.853	95% Hall's Bootstrap UCL	1.967
Kolmogorov-Smirnov Test Statistic	0.182	95% Percentile Bootstrap UCL	0.802
Kolmogorov-Smirnov 5% Critical Value	0.106	95% BCA Bootstrap UCL	0.965
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	1.251
		97.5% Chebyshev(Mean, Sd) UCL	1.57
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	2.198
95% Approximate Gamma UCL	0.717		A. 105. 147 1277 14 41 414 111 11 11 11 11 11 11 11 11 1
95% Adjusted Gamma UCL	0.721		and the same of th
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	2,198
1 Olembar CCL to GSE		Ose 33 % Chebyshev (Weath, 34) Co.L	2,130
Result or 1/2 SDL (pyrene)			
Court of the Court	r ghoga e e man ka (mpara da nga ana an an pun pangana, r d		
	General S		70
Number of Valid Samples	83	Number of Unique Samples	76
Raw Statistics	***************************************	Log-transformed Statistics	
Minimum	0.0055	Minimum of Log Data	-5.194
Maximum	8.47	Maximum of Log Data	2.137
Mean	0.533	Mean of log Data	-2.413
Median	0.075	SD of log Data	1.994
SD	1.209		
Coefficient of Variation	2.27		
Skewness	4.319		

	Relevant UCL S	Statistics	
Normal Distribution Test	TOOL O	Lognormal Distribution Test	····
Lilliefors Test Statistic	0.333	Lilliefors Test Statistic	0.08
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.09
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.754	95% H-UCL	1.36
95% UCLs (Adjusted for Skewness)	0.701	95% Chebyshev (MVUE) UCL	1.51
95% Adjusted-CLT UCL	0.818	97.5% Chebyshev (MVUE) UCL	1.90
95% Modified-t UCL	0.764	99% Chebyshev (MVUE) UCL	2.67
		000000000000000000000000000000000000000	
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.368	Data appear Lognormal at 5% Significance Level	
Theta Star	1.449		
nu star	61.04		
Approximate Chi Square Value (.05)	44.07	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.75
Adjusted Chi Square Value	43.82	95% Jackknife UCL	0.75
		95% Standard Bootstrap UCL	0.75
Anderson-Darling Test Statistic	3.7	95% Bootstrap-t UCL	0.87
Anderson-Darling 5% Critical Value	0.849	95% Hall's Bootstrap UCL	1.42
Kolmogorov-Smirnov Test Statistic	0.175	95% Percentile Bootstrap UCL	0.76
Kolmogorov-Smirnov 5% Critical Value	0.105	95% BCA Bootstrap UCL	0.82
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	1.11
		97.5% Chebyshev(Mean, Sd) UCL	1.36
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.85
95% Approximate Gamma UCL	0.738		
95% Adjusted Gamma UCL	0.742		. P
Potential UCL to Use		Use 95% H-UCL	1.36
sult or 1/2 SDL (selenium)			
	General Stati	stics	
Number of Valid Samples	83	Number of Unique Samples	19
Raw Statistics		Log-transformed Statistics	//
Minimum	0.21	Minimum of Log Data	-1.561
Maximum	0.48	Maximum of Log Data	-0.734
Mean	0.258	Mean of log Data	-1.377
Median	0.24	SD of log Data	0.20
SD	0.0663		
Coefficient of Variation	0.257		
Skewness	2.645		
F	Relevant UCL S	tatistics	, po 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.363	Lilliefors Test Statistic	0.32
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.09

		on the state of th	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.27	95% H-UCL	0.267
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.282
95% Adjusted-CLT UCL	0.272	97.5% Chebyshev (MVUE) UCL	0.293
95% Modified-t UCL	0.272	99% Chebyshev (MVUE) UCL	0.31
3070 Woulden-1 33L	0.271	3370 Chebyshov (MVGE) GGE	0.01
Gamma Distribution Test		Data Distribution	*******************************
k star (bias corrected)	20.56	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	0.0126		
nu star	3413		
Approximate Chi Square Value (.05)	3278	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.27
Adjusted Chi Square Value	3276	95% Jackknife UCL	0.27
## - 1.00		95% Standard Bootstrap UCL	0.27
Anderson-Darling Test Statistic	13.15	95% Bootstrap-t UCL	0.27
Anderson-Darling 5% Critical Value	0.75	95% Hall's Bootstrap UCL	0.27
Kolmogorov-Smirnov Test Statistic	0.338	95% Percentile Bootstrap UCL	0.27
Kolmogorov-Smirnov 5% Critical Value	0.0978	95% BCA Bootstrap UCL	0.27
Data not Gamma Distributed at 5% Significance L		95% Chebyshev(Mean, Sd) UCL	0.29
	~··	97.5% Chebyshev(Mean, Sd) UCL	0.304
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.33
95% Approximate Gamma UCL	0.269	33 % Chebyshev (Wealt, 3u) OCL	0.55
95% Adjusted Gamma UCL	0.269		VIII
Potential UCL to Use		Use 95% Student's-t UCL	0.27
		or 95% Modified-t UCL	0.27
esult or 1/2 SDL (silver)			
	General Sta	atictics	
Number of Valid Samples	General Sta	atistics Number of Unique Samples	24
		Number of Unique Samples	24
Raw Statistics	83	Number of Unique Samples Log-transformed Statistics	
Raw Statistics Minimum	0.0235	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	-3.751
Raw Statistics Minimum Maximum	0.0235	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-3.751 -0.0101
Raw Statistics Minimum Maximum Mean	0.0235 0.99 0.0573	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-3.751 -0.0101 -3.388
Raw Statistics Minimum Maximum Mean Median	0.0235 0.99 0.0573 0.0265	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-3.751 -0.0101 -3.388
Raw Statistics Minimum Maximum Mean Median SD	0.0235 0.99 0.0573 0.0265 0.125	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-3.751 -0.0101 -3.388
Raw Statistics Minimum Maximum Mean Median	0.0235 0.99 0.0573 0.0265	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-3.751 -0.0101 -3.388
Raw Statistics Minimum Maximum Mean Median SD	0.0235 0.99 0.0573 0.0265 0.125	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-3.751 -0.010 ⁻¹
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0235 0.99 0.0573 0.0265 0.125 2.178	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-3.751 -0.0101 -3.388
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0235 0.99 0.0573 0.0265 0.125 2.178 5.862	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-3.751 -0.0101 -3.388
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0235 0.99 0.0573 0.0265 0.125 2.178 5.862	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-3.751 -0.010 -3.388 0.71
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test	0.0235 0.99 0.0573 0.0265 0.125 2.178 5.862	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test	-3.751 -0.010 -3.388 0.71
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Lilliefors Test Statistic	0.0235 0.99 0.0573 0.0265 0.125 2.178 5.862	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Statistics Lognormal Distribution Test Lilliefors Test Statistic	
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value	0.0235 0.99 0.0573 0.0265 0.125 2.178 5.862	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value	-3.751 -0.010 -3.388 0.71

95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.05
95% Adjusted-CLT UCL	0.0892	97.5% Chebyshev (MVUE) UCL	0.06
95% Modified-t UCL	0.0815	99% Chebyshev (MVUE) UCL	0.08
Gamma Distribution Test		Data Distribution	***************************************
k star (bias corrected)	1.053	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.0544		
nu star	174.9		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Approximate Chi Square Value (.05)	145.3	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.0
Adjusted Chi Square Value	144.8	95% Jackknife UCL	0.0
the distribution of the second desired the second s		95% Standard Bootstrap UCL	0.0
Anderson-Darling Test Statistic	21.47	95% Bootstrap-t UCL	0.1
Anderson-Darling 5% Critical Value	0.78	95% Hall's Bootstrap UCL	0.1
Kolmogorov-Smirnov Test Statistic	0.444	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.101	95% BCA Bootstrap UCL	0.0
Data not Gamma Distributed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL	0.1
		97.5% Chebyshev(Mean, Sd) UCL	0.1
Assuming Gamma Distribution	I	99% Chebyshev(Mean, Sd) UCL	0.1
95% Approximate Gamma UCL	0.0689		
95% Adjusted Gamma UCL	0.0691		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.1
lt or 1/2 SDL (strontium)	General S	statistics	
It or 1/2 SDL (strontium) Number of Valid Samples	General S	Statistics Number of Unique Samples	76
			76
Number of Valid Samples		Number of Unique Samples	
Number of Valid Samples Raw Statistics	83	Number of Unique Samples Log-transformed Statistics	2.8
Number of Valid Samples Raw Statistics Minimum	83 16.5	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	2.8 6.2
Number of Valid Samples Raw Statistics Minimum Maximum	16.5 527	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	2.8 6.2 4.0
Number of Valid Samples Raw Statistics Minimum Maximum Mean	16.5 527 70.61	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	2.8 6.2 4.0
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	16.5 527 70.61 57.3	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	2.8 6.2 4.0
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	16.5 527 70.61 57.3 63.98	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	2.8 6.2 4.0
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	16.5 527 70.61 57.3 63.98 0.906	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	2.8 6.2 4.0
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	16.5 527 70.61 57.3 63.98 0.906 5.044	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	2.8 6.2 4.0
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	16.5 527 70.61 57.3 63.98 0.906 5.044	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	2.8 6.2 4.0 0.5
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test	16.5 527 70.61 57.3 63.98 0.906 5.044	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test	2.8 6.2 4.0 0.5
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Lilliefors Test Statistic	16.5 527 70.61 57.3 63.98 0.906 5.044	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test Lilliefors Test Statistic	2.8 6.2 4.0 0.5
Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level	16.5 527 70.61 57.3 63.98 0.906 5.044	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level	2.8 6.2 4.0 0.5
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	16.5 527 70.61 57.3 63.98 0.906 5.044 Relevant UCI	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution	2.8 6.2 4.0 0.5
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	16.5 527 70.61 57.3 63.98 0.906 5.044	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	2.8 6.2 4.0 0.5 0.1 0.0
Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	16.5 527 70.61 57.3 63.98 0.906 5.044 Relevant UCI 0.241 0.0973	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	2.8 6.2 4.0 0.5 0.1 0.1 0.0 77.6
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	16.5 527 70.61 57.3 63.98 0.906 5.044 Relevant UCI	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	2.8 6.2 4.0 0.5 0.1 0.0
Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	16.5 527 70.61 57.3 63.98 0.906 5.044 Relevant UC 0.241 0.0973	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	2. 6. 4. 0. 0. 0. 77. 89. 97.

10.20.20.20.20.20.70.74		or carlo
2 606	Data do not follow a Discernable Distribution (0.0	5)
	Data do not follow a Discernable Distribution (0.0	
	Nonparametric Statistics	
. [82.16
<u> </u>		82.29
001.0		81.58
2 313		91.45
	,	135.7
]		82.83
	- 1	86.92
	`	101.2
	1	114.5
1		140.5
79.26		
1		ninangiaarrimmeninin
/ 3.72		
***************************************	Use 95% Chebyshev (Mean, Sd) UCL	101.2
General S	Statistics	
		35
	Number of Single Campion	
	Log-transformed Statistics	
0.23	_	-1.47
4.95		1.599
0.611	Mean of log Data	-0.898
0.265	SD of log Data	0.768
0.793		
1.296		
3.22		
Relevant UC		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		1441- 5 446614444 44 5454444 4
<u> </u>	I	0.334
0.0973		0.097
	Data not Lognormal at 5% Significance Level	
	Assuming Lognormal Distribution	
0.756	95% H-UCL	0.65
***************************************	95% Chebyshev (MVUE) UCL	0.769
0.787	97.5% Chebyshev (MVUE) UCL	0.866
0.761	99% Chebyshev (MVUE) UCL	1.057
	Data Distribution	
1.334	Data do not follow a Discernable Distribution (0.0)	5)
1		
]]		
	Nonparametric Statistics	
, .55	ronparametri di	
	General S 83 0.23 4.95 0.611 0.265 0.793 1.296 3.22 Relevant UC 0.325 0.0973 0.756	27.1

Adjusted Chi Square Value	187.4	95% Jackknife UCL	0.756
		95% Standard Bootstrap UCL	0.756
Anderson-Darling Test Statistic		95% Bootstrap-t UCL	0.816
Anderson-Darling 5% Critical Value	į	95% Hall's Bootstrap UCL	0.816
Kolmogorov-Smirnov Test Statistic	-	95% Percentile Bootstrap UCL	0.768
Kolmogorov-Smirnov 5% Critical Value		95% BCA Bootstrap UCL	0.802
Data not Gamma Distributed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL	0.991
		97.5% Chebyshev(Mean, Sd) UCL	1.155
Assuming Gamma Distribution	ngto-to-to-to-to-to-to-to-to-to-to-to	99% Chebyshev(Mean, Sd) UCL	1.477
95% Approximate Gamma UCL	0.72		
95% Adjusted Gamma UCL	0.722		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.991
Result or 1/2 SDL (titanium)			
	General	Statistics	***************************************
Number of Valid Samples	83	Number of Unique Samples	71
Raw Statistics		Log-transformed Statistics	
Minimum	11.5	Minimum of Log Data	2.442
Maximum	645	Maximum of Log Data	6.469
Mean	29.8	Mean of log Data	3.055
Median	19.5	SD of log Data	0.544
SD	69.4		
Coefficient of Variation	2,329		
Skewness	8.71		
Normal Distribution Test	Relevant Ut	CL Statistics	
Lilliefors Test Statistic	0.396	Lognormal Distribution Test Lilliefors Test Statistic	0.193
Lilliefors Critical Value	0.396		0.193
Data not Normal at 5% Significance Level	0.09/3	Data not Lognormal at 5% Significance Level	0.097
Data not Normal at 3% Significance Level		Data not cognormal at 5% Significance Level	and the second
Assuming Normal Distribution		Assuming Lognormal Distribution	411. mm/m/m/mm/m-1
95% Student's-t UCL	42.47	95% H-UCL	27.51
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	31.33
95% Adjusted-CLT UCL	50.11	97.5% Chebyshev (MVUE) UCL	34.27
95% Modified-t UCL	43.68	99% Chebyshev (MVUE) UCL	40.05
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.568	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	19.01		-
nu star	260.3		
Approximate Chi Square Value (.05)	223.9	Nonparametric Statistics	Tradition Hamburger Construction Plant
Adjusted Level of Significance	0.0471	95% CLT UCL	42.33
Adjusted Chi Square Value	223.3	95% Jackknife UCL	42.47
		95% Standard Bootstrap UCL	42.22
Anderson-Darling Test Statistic	11.79	95% Bootstrap-t UCL	96.34
Anderson-Darling 5% Critical Value	0.769	95% Hall's Bootstrap UCL	87.12
Kolmogorov-Smirnov Test Statistic	0.289	95% Percentile Bootstrap UCL	44.62

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Kolmogorov-Smirnov 5% Critical Value	0.0998	95% BCA Bootstrap UCL	53.78
Data not Gamma Distributed at 5% Significance L	i i	95% Chebyshev(Mean, Sd) UCL	63
Data not Gamma Distributed at 5% Significance L	evei	97.5% Chebyshev(Mean, Sd) UCL	77.37
Acqueries Commo Distribution	ļ		
Assuming Gamma Distribution	24.04	99% Chebyshev(Mean, Sd) UCL	105.6
95% Approximate Gamma UCL	34.64		
95% Adjusted Gamma UCL	34.73		
Potential UCL to Use	-	Use 95% Chebyshev (Mean, Sd) UCL	63
esult or 1/2 SDL (vanadium)			
	General S	itatistics	Michigan Cartaba
Number of Valid Samples	83	Number of Unique Samples	67
Raw Statistics		Log-transformed Statistics	
Minimum	5.42	Minimum of Log Data	1.69
Maximum	45.6	Maximum of Log Data	3.82
Mean	13.76	Mean of log Data	2.53
Median	12.9	SD of log Data	0.40
SD	6.248		
Coefficient of Variation	0.454		
Skewness	2.186		vali antidali antida
Normal Distribution Test Lilliefors Test Statistic	Relevant UCI	Lognormal Distribution Test Lilliefors Test Statistic	0.06
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.09
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution	440	Assuming Lognormal Distribution	
95% Student's-t UCL	14.9		440-
95% UCLs (Adjusted for Skewness)		95% H-UCL	14.87
		95% Chebyshev (MVUE) UCL	16.46
95% Adjusted-CLT UCL	15.06	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	16.46 17.65
95% Adjusted-CLT UCL 95% Modified-t UCL	15.06 14.93	95% Chebyshev (MVUE) UCL	16.46 17.69
95% Modified-t UCL Gamma Distribution Test	14.93	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	16.46 17.65 19.98
95% Modified-t UCL		95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	16.40 17.69 19.98
95% Modified-t UCL Gamma Distribution Test	14.93	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	16.40 17.69 19.98
95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star	14.93 5.932	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	16.40 17.69 19.98
95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05)	5.932 2.319	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	16.4 17.6 19.9
95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star	5.932 2.319 984.6	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Gamma Distributed at 5% Significance L	16.4 17.6 19.9 evel
95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05)	5.932 2.319 984.6 912.8	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Gamma Distributed at 5% Significance L Nonparametric Statistics	16.4 17.6 19.9 evel
95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance	5.932 2.319 984.6 912.8 0.0471	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Gamma Distributed at 5% Significance L Nonparametric Statistics 95% CLT UCL	16.4 17.6 19.9 evel
95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance	5.932 2.319 984.6 912.8 0.0471	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Gamma Distributed at 5% Significance L Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL	16.44 17.69 19.98 evel 14.89 14.89
95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value	5.932 2.319 984.6 912.8 0.0471 911.6	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Gamma Distributed at 5% Significance L Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL	16.4 17.6 19.9 evel 14.8 14.9 14.8
Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic	5.932 2.319 984.6 912.8 0.0471 911.6	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Gamma Distributed at 5% Significance L Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL	16.44 17.6 19.9 evel 14.89 14.9 14.89 15.19
95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value	5.932 2.319 984.6 912.8 0.0471 911.6	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Gamma Distributed at 5% Significance L Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL	16.44 17.69 19.98 .evel 14.89 14.9 15.18 15.36 14.94
Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic	5.932 2.319 984.6 912.8 0.0471 911.6 0.532 0.754 0.0752 0.0982	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Gamma Distributed at 5% Significance L Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL	16.46 17.65 19.98 evel
Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value	5.932 2.319 984.6 912.8 0.0471 911.6 0.532 0.754 0.0752 0.0982	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Gamma Distributed at 5% Significance L Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL	16.46 17.65 19.98 evel 14.89 14.9 15.15 15.36 14.94
Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value	5.932 2.319 984.6 912.8 0.0471 911.6 0.532 0.754 0.0752 0.0982	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Gamma Distributed at 5% Significance L Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL	16.46 17.65 19.98 evel 14.89 14.99 15.15 15.36 14.94 15.03

95% Adjusted Gamma UCL	14.86		
Potential UCL to Use		Use 95% Approximate Gamma UCL	14.84
sult or 1/2 SDL (zinc)	and the state of t		
	V		
	General St	atistics	
Number of Valid Samples	83	Number of Unique Samples	81
Raw Statistics		Log-transformed Statistics	
Minimum	12.3	Minimum of Log Data	2.5
Maximum	4770	Maximum of Log Data	8.47
Mean	601.2	Mean of log Data	5.83
Median	455	SD of log Data	1.20
SD	672.8		
Coefficient of Variation	1.119		
Skewness	3.386		
	Relevant UCL	Chatistics	
Normal Distribution Test	Nelevalit OCL	Lognormal Distribution Test	
Lilliefors Test Statistic	0.191	Lilliefors Test Statistic	0.14
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.09
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	Hellettelere over 18 Comments
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	724.1	95% H-UCL	976.4
95% UCLs (Adjusted for Skewness)	/27.1	95% Chebyshev (MVUE) UCL	1204
95% Adjusted-CLT UCL	752	97.5% Chebyshev (MVUE) UCL	1423
95% Modified-t UCL	728.6	99% Chebyshev (MVUE) UCL	1855
Gamma Distribution Test k star (bias corrected)	0.996	Data Distribution Data appear Gamma Distributed at 5% Significance	Loval
Theta Star	603.9	Data appear Gamma Distributed at 5% Significance	reve
nu stari	165.3		H
Approximate Chi Square Value (.05)	136.5	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	722.7
Adjusted Chi Square Value	136.1	· 95% Jackknife UCL	724.1
		95% Standard Bootstrap UCL	717.7
Anderson-Darling Test Statistic	0.442	95% Bootstrap-t UCL	763
Anderson-Darling 5% Critical Value	0.782	95% Hall's Bootstrap UCL	816,5
Kolmogorov-Smirnov Test Statistic	0.0769	95% Percentile Bootstrap UCL	727.9
Kolmogorov-Smirnov 5% Critical Value	0.101	95% BCA Bootstrap UCL	758.6
Data appear Gamma Distributed at 5% Significance	l	95% Chebyshev(Mean, Sd) UCL	923.1
		97.5% Chebyshev(Mean, Sd) UCL	1062
Assuming Gamma Distribution	**************************************	99% Chebyshev(Mean, Sd) UCL	1336
95% Approximate Gamma UCL	727.7		
95% Adjusted Gamma UCL	730.2		
			707 -
Potential UCL to Use	i	Use 95% Approximate Gamma UCL	727.7

APPENDIX A-2

SOUTH OF MARLIN SOIL

	General UCL Statistics	s for Full Da	ta Sets	
User Selected Options				
From File	J:\1352 - Gulfco RI\risk	\data querie	s oct 07\EPC tables with onehalf DL\95% detect frequency	soil S of m
Full Precision	OFF			and and a finite and the transmission specifies
Confidence Coefficient	95%	· mainequiteçõe · a · maarevç		and the state of t
Number of Bootstrap Operations	2000	Managana argustura i Reportibus ant antiquest que gir		
Result or 1/2 SDL (1,3,5-trimethyl	benzene)			
		General S	Statistics	
Nu	mber of Valid Samples	83	Number of Unique Samples	58 ,
Raw Si	tatistics	CONTRACTOR AND	Log-transformed Statistics	
germanyan ang nga 19 at datah at ang garang matawat Addib Madadah kanaban kanbah at an at Affection bil tan ba	Minimum	3.7000E-5	Minimum of Log Data	-10.2
	Maximum	4.36	Maximum of Log Data	1.472
	Mean	0.099	Mean of log Data	-8.82
	Median	7.4500E-5	SD of log Data	1.986
	SD	0.632		
	Coefficient of Variation	6.391		
	Skewness	6.366		
annighted the editions and with the Alexandrian decimal to produce the best of the decimal to the second to the		Relevant UC	DL Statistics	
Normal Distr	ribution Test		Lognormal Distribution Test	*** *** *** *** *** *** *** *** *** **
ondersahirinin in stemma tima tima menengan dengan dan melalah melalah menengan tima dan melalah menengan tima	Lilliefors Test Statistic	0.535	Lilliefors Test Statistic	0.397
heliolodd man nebrandr cyntolodd a tolonog oden eilligwydd dloneol fall docu on conectenneu mae	Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.0973
Data not Normal at 59	% Significance Level	l	Data not Lognormal at 5% Significance Level	
Assuming Norn	nal Distribution		Assuming Lognormal Distribution	
	95% Student's-t UCL	0.214	95% H-UCL	0.0022
95% UCLs (Adjus	sted for Skewness)		95% Chebyshev (MVUE) UCL	0.0024
9	5% Adjusted-CLT UCL	0.265	97.5% Chebyshev (MVUE) UCL	0.0030
	95% Modified-t UCL	0.223	99% Chebyshev (MVUE) UCL	0.0043
Gamma Dist	ribution Test		Data Distribution	rapera o podrete estrato de sel fundos esta de contrato de contrato de contrato de contrato de contrato de con
antigen yn regen yn regen yn ei yn yr regen yn ei gyddyn a gan yr ar yn rhael yn rhael yn yr yn yn yr rhael yn y gan yn rhael yn y gan y dael yn rhael yn y gan yn rhael yn yn rhael yn	k star (bias corrected)	0.125	Data do not follow a Discernable Distribution (0.05)
rannan (i i i i i i i i i i i i i i i i i i i	Theta Star	0.79		
entransa menentra for breighen differen en elde enner en de sente en den en elde en en elde for en elde en elde en	nu star	20.8		alati aleebitii ka esa koorankesidaleebir
Approximate (Chi Square Value (.05)	11.44	Nonparametric Statistics	age a report of the part of the control of the cont
Adjuste	d Level of Significance	0.0471	95% CLT UCL	0.213
Adju	sted Chi Square Value	11.32	95% Jackknife UCL	0.214
And the second section of the second section of the second section of the second section of the	CONTRACTOR OF THE CONTRACTOR OF THE PROPERTY O		95% Standard Bootstrap UCL	0.212
Anderso	n-Darling Test Statistic	28.64	95% Bootstrap-t UCL	67.91
Anderson-Da	rling 5% Critical Value	0.984	95% Hall's Bootstrap UCL	42.63
Kolmogorov	-Smirnov Test Statistic	0.464	95% Percentile Bootstrap UCL	0.211
Kolmogorov-Smi	rnov 5% Critical Value	0.112	95% BCA Bootstrap UCL	0.29
Data not Gamma Distributed	d at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.402
a commence of the control of the con			97.5% Chebyshev(Mean, Sd) UCL	0.532
Assuming Gam	ma Distribution		99% Chebyshev(Mean, Sd) UCL	0.79
	roximate Gamma UCL	0.18		
95%	Adjusted Gamma UCL	0.182		and a contract of the contract
		£	1	

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Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.53
ult or 1/2 SDL (2-butanone)			
	General Stati	stics	al a haqa aqaqal ilaa ay qilqilgiigi gaasala
Number of Valid Samples	83	Number of Unique Samples	81
Raw Statistics		Log-transformed Statistics	
Minimum	7.1500E-5	Minimum of Log Data	-9.54
Maximum	0.06	Maximum of Log Data	-2.81
Mean	0.0041	Mean of log Data	-6.32
Median	0.0019	SD of log Data	1.3
SD	0.0074		**************************************
Coefficient of Variation	1.818		***************
Skewness	5.537		
	Relevant UCL S	tatistics	Abropa prompty openia
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.294	Lilliefors Test Statistic	0.1
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.0
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	***************************************
Assuming Normal Distribution		Assuming Lognormal Distribution	, , , , , , , , , , , , , , , , , , ,
95% Student's-t UCL	0.0054	95% H-UCL	0.0
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0
95% Adjusted-CLT UCL	0.006	97.5% Chebyshev (MVUE) UCL	0.0
95% Modified-t UCL	0.0055	99% Chebyshev (MVUE) UCL	0.0
Gamma Distribution Test		Data Distribution	***************************************
k star (bias corrected)	0.708	Data do not follow a Discernable Distribution (0.05))
Theta Star	0.0058		
nu star	117.5		Aparticipal Const.
Approximate Chi Square Value (.05)	93.51	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.0
Adjusted Chi Square Value	93.13	95% Jackknife UCL	0.0
		95% Standard Bootstrap UCL	0.0
Anderson-Darling Test Statistic	1.855	95% Bootstrap-t UCL	0.0
Anderson-Darling 5% Critical Value	0.796	95% Hall's Bootstrap UCL	0.0
Kolmogorov-Smirnov Test Statistic	0.134	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.102	95% BCA Bootstrap UCL	0.0
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.0
		97.5% Chebyshev(Mean, Sd) UCL	0.0
Assuming Gamma Distribution	4	99% Chebyshev(Mean, Sd) UCL	0.0
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.0051		
oo n Aujusta damina ool	0.0002		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.0

	General	Statistics	
Number of Valid Samples	83	Number of Unique Samples	79
	······································		
Raw Statistics	1.0000= 1	Log-transformed Statistics	~
id bbbs 1166bbw ardonywoon (paramanananananananananananananananananan	1.8900E-4	Minimum of Log Data	-8.574
Maximum	0.159	Maximum of Log Data	-1.842
Mean	0.0040		-7.35
	3.7750E-4	SD of log Data	1.34
SD	0.018		
Coefficient of Variation	4.426		
Skewness	7.989		anna tita (*a) - i palantiglia - Alektrolak
F	Relevant UC	CL Statistics	
Normal Distribution Test	Pro-Milada ett effer och of och block of ett	Lognormal Distribution Test	10 m 10 m/s 104 - 111 m/w
Lilliefors Test Statistic	0.415	Lilliefors Test Statistic	0.399
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.097
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	lade Casa and Casa and Casa Casa Casa Casa Casa Casa Casa Cas
95% Student's-t UCL	0.0073		0.002
95% UCLs (Adjusted for Skewness)	0.0073	95% Chebyshev (MVUE) UCL	0.002
95% Adjusted-CLT UCL	0.0091		0.002
95% Modified-t UCL	0.0076	99% Chebyshev (MVUE) UCL	0.004
Gamma Distribution Test	ar an an ann an	Data Distribution	may a part open species on the best construction of the
k star (bias corrected)	0.358	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.0113		and the state of t
nu star	59.38		
Approximate Chi Square Value (.05)	42.66	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.007
Adjusted Chi Square Value	42.41	95% Jackknife UCL	0.007
		95% Standard Bootstrap UCL	0.007
Anderson-Darling Test Statistic	20.58	95% Bootstrap-t UCL	0.014
Anderson-Darling 5% Critical Value	0.851	95% Hall's Bootstrap UCL	0.017
Kolmogorov-Smirnov Test Statistic	0.455	95% Percentile Bootstrap UCL	0.007
Kolmogorov-Smirnov 5% Critical Value	0.106	95% BCA Bootstrap UCL	0.010
Data not Gamma Distributed at 5% Significance Lev	/el	95% Chebyshev(Mean, Sd) UCL	0.012
		97.5% Chebyshev(Mean, Sd) UCL	0.016
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.023
95% Approximate Gamma UCL	0.0056		
95% Adjusted Gamma UCL	0.0056		Visit + 12-11-12-11-11-11-11-11-11-11-11-11-11-1
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.016
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.0056		Value to Landana
	General	Statistics	
Number of Valid Samples	166	Number of Unique Samples	84
Raw Statistics		Log-transformed Statistics	
Minimum	0.0047		-5.354

	1 2 2		
Maximum	7.21	Maximum of Log Data	1.975
Mean	0.0694	Mean of log Data	-4.533
Median	0.0056	SD of log Data	1.209
SD	0.561		
Coefficient of Variation	8.087		graces of the second
Skewness	12.66		
	Relevant UC	CL Statistics	
Normal Distribution Test	***************************************	Lognormal Distribution Test	******************************
Lilliefors Test Statistic	0.454	Lilliefors Test Statistic	0.354
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.068
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.141	95% H-UCL	0.027
95% UCLs (Adjusted for Skewness)	1	95% Chebyshev (MVUE) UCL	0.027
95% Adjusted CLT UCL	0.187	97.5% Chebyshev (MVUE) UCL	0.038
95% Modified-t UCL	0.187	99% Chebyshev (MVUE) UCL	0.038
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.357	Data do not follow a Discernable Distribution (0.05)
Theta Star	0.194		
nu star	118.4		
Approximate Chi Square Value (.05)	94.29	Nonparametric Statistics	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Adjusted Level of Significance	0.0486	95% CLT UCL	0.141
Adjusted Chi Square Value	94.11	95% Jackknife UCL	0.141
		95% Standard Bootstrap UCL	0.146
Anderson-Darling Test Statistic	6.024E+28	95% Bootstrap-t UCL	0.686
Anderson-Darling 5% Critical Value	0.854	95% Hall's Bootstrap UCL	0.403
Kolmogorov-Smirnov Test Statistic	0.361	95% Percentile Bootstrap UCL	0.155
Kolmogorov-Smirnov 5% Critical Value	0.078	95% BCA Bootstrap UCL	0.205
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.259
		97.5% Chebyshev(Mean, Sd) UCL	0.341
Assuming Gamma Distribution	<u> </u>	99% Chebyshev(Mean, Sd) UCL	0.503
95% Approximate Gamma UCL	0.0871		
95% Adjusted Gamma UCL	0.0873		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.341
esult or 1/2 SDL (4,4'-ddd)			
	General :	Statistics	**************************************
Number of Valid Samples	166	Number of Unique Samples	100
Day Chatlatia	4	Log-transformed Statistics	and the second seco
Raw Statistics	1.1750E-4	Log-transformed Statistics Minimum of Log Data	-9.049
Maximum	1.1750E-4 1.12	Maximum of Log Data Maximum of Log Data	-9.049 0.113
waximum Mean	0.0076	_	-8.292
Median	1.3950E-4	SD of log Data	-6.292 1.373
Median SD	0.0869	SD of log Data	1.070
Coefficient of Variation	11.34		

Skewness	12.86		-17
Skewness	12.80		
	Relevant UCL S	tatistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.473	Lilliefors Test Statistic	0.396
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.068
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0188	95% H-UCL	8.4016E-4
95% UCLs (Adjusted for Skewness)	J	95% Chebyshev (MVUE) UCL	0.001
95% Adjusted-CLT UCL	0.026	97.5% Chebyshev (MVUE) UCL	0.001
95% Modified-t UCL	0.0199	99% Chebyshev (MVUE) UCL	0.001
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.213	Data do not follow a Discernable Distribution (0.05	
Theta Star	0.0359	Data do not foliow a Discernable Distribution (0:00	·
nu star	70.78		
Approximate Chi Square Value (.05)	52.41	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	0.018
Adjusted Chi Square Value	52.28	95% Jackknife UCL	0.018
		95% Standard Bootstrap UCL	0.018
Anderson-Darling Test Statistic	48.45	95% Bootstrap-t UCL	0.31
Anderson-Darling 5% Critical Value	0.908	95% Hall's Bootstrap UCL	0.188
Kolmogorov-Smirnov Test Statistic	0.432	95% Percentile Bootstrap UCL	0.021
Kolmogorov-Smirnov 5% Critical Value	0.08	95% BCA Bootstrap UCL	0.034
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.037
		97.5% Chebyshev(Mean, Sd) UCL	0.049
Assuming Gamma Distribution	<u> </u>	99% Chebyshev(Mean, Sd) UCL	0.074
95% Approximate Gamma UCL	0.0104		
95% Adjusted Gamma UCL	0.0104		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.049
Result or 1/2 SDL (4,4'-dde)			
	General Stati	istics	
Number of Valid Samples	166	Number of Unique Samples	113
Raw Statistics		Log-transformed Statistics	
Minimum	1.6300E-4	Minimum of Log Data	-8.722
Maximum	0.0693	Maximum of Log Data	-2.669
Mean	0.0017	Mean of log Data	-7.973
Median		SD of log Data	1.22
SD	0.0076		ante en conques non rivores vagino propri magin
Coefficient of Variation	4.484		Landenderen 1443 f. err fragerijke van de berje
Skewness	7.741		
	Relevant UCL S	statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.42	· Lilliefors Test Statistic	0.379

	0.0000	Life for Cold (177)	0.0688
Lilliefors Critical Value Data not Normal at 5% Significance Level	0.0688	Lilliefors Critical Value Data not Lognormal at 5% Significance Level	0.08
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0026	95% H-UCL	
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.001
95% Adjusted-CLT UCL	0.0030	97.5% Chebyshev (MVUE) UCL	0.001
95% Modified-t UCL	0.0027	99% Chebyshev (MVUE) UCL	0.001
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.407	Data do not follow a Discernable Distribution (0.05)
Theta Star	0.0041		
nu star	135.2		
Approximate Chi Square Value (.05)	109.3	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	0.002
Adjusted Chi Square Value	109.1	95% Jackknife UCL	0.002
		95% Standard Bootstrap UCL	0.002
Anderson-Darling Test Statistic	36,49	95% Bootstrap-t UCL	0.004
Anderson-Darling 5% Critical Value	0.842	95% Hall's Bootstrap UCL	0.006
Kolmogorov-Smirnov Test Statistic	0.408	95% Percentile Bootstrap UCL	0.002
Kolmogorov-Smirnov 7 est Statistic	0.408	95% BCA Bootstrap UCL	0.002
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.004
Data not Gamina Distributed at 5% Significance Le	vei		0.004
		97.5% Chebyshev(Mean, Sd) UCL	
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.007
95% Approximate Gamma UCL	0.0021		
95% Adjusted Gamma UCL	0.0021		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.005
esult or 1/2 SDL (4,4'-ddt)			

	General Sta	atistics	
Number of Valid Samples	General Sta	atistics Number of Unique Samples	114
		Number of Unique Samples	114
Raw Statistics	166	Number of Unique Samples Log-transformed Statistics	
Raw Statistics Minimum	166 6.2500E-5	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	-9.68
Raw Statistics	6.2500E-5 0.113	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-9.68 -2.18
Raw Statistics Minimum	6.2500E-5 0.113 0.0037	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-9.68 -2.18 -7.782
Raw Statistics Minimum Maximum	6.2500E-5 0.113	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-9.68 -2.18 -7.782
Raw Statistics Minimum Maximum Mean	6.2500E-5 0.113 0.0037	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-9.68 -2.18 -7.782
Raw Statistics Minimum Maximum Mean Median	6.2500E-5 0.113 0.0037 1.1075E-4	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-9.68 -2.18 -7.782
Raw Statistics Minimum Maximum Mean Median SD	6.2500E-5 0.113 0.0037 1.1075E-4 0.0114	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-9.68 -2.18
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	6.2500E-5 0.113 0.0037 1.1075E-4 0.0114 3.045	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-9.68 -2.18 -7.782
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	6.2500E-5 0.113 0.0037 1.1075E-4 0.0114 3.045 6.653	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-9.68 -2.18 -7.782
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	6.2500E-5 0.113 0.0037 1.1075E-4 0.0114 3.045 6.653	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Mean of log Data SD of log Data SD of log Data	-9.68 -2.18 -7.782
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	6.2500E-5 0.113 0.0037 1.1075E-4 0.0114 3.045 6.653 Relevant UCL	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test	-9.68 -2.18 -7.782 2.03:
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic	6.2500E-5 0.113 0.0037 1.1075E-4 0.0114 3.045 6.653	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Statistics Lognormal Distribution Test Lilliefors Test Statistic	-9.68 -2.18 -7.782 2.033
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value	6.2500E-5 0.113 0.0037 1.1075E-4 0.0114 3.045 6.653 Relevant UCL	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Lilliefors Test Statistic	-9.68 -2.18 -7.782 2.033

95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.006
95% Adjusted-CLT UCL	0.0056	97.5% Chebyshev (MVUE) UCL	0.008
95% Modified-t UCL	0.0052	99% Chebyshev (MVUE) UCL	0.011
Gamma Distribution Test		Data Distribution	Maria Carrier and Carrier
k star (bias corrected)	0.311	Data do not follow a Discernable Distribution (0.05)
Theta Star	0.012		,
nu star	103.2		
Approximate Chi Square Value (.05)	80.8	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	0.005
Adjusted Chi Square Value	80.63	95% Jackknife UCL	0.005
		95% Standard Bootstrap UCL	0.005
Anderson-Darling Test Statistic	16.11	95% Bootstrap t UCL	0.006
Anderson-Darling 5% Critical Value	0.866	95% Hall's Bootstrap UCL	0.011
Kolmogorov-Smirnov Test Statistic	0.256	95% Percentile Bootstrap UCL	0.005
Kolmogorov-Smirnov 5% Critical Value	0.230	95% BCA Bootstrap UCL	0.005
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.007
Data not Gamina Distributed at 5% Significance Le	vei	97.5% Chebyshev(Mean, Sd) UCL	0.009
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.003
	0.0047	99% Chebysnev(Mean, Su) OCL	0.012
95% Approximate Gamma UCL	0.0047		
95% Adjusted Gamma UCL	0.0047		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.012
It or 1/2 SDL (acenaphthene)			
	General S		108
It or 1/2 SDL (acenaphthene) Number of Valid Samples	General SI	tatistics Number of Unique Samples	108
	*****		108
Number of Valid Samples	*****	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	108
Number of Valid Samples Raw Statistics	166	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-5.438
Number of Valid Samples Raw Statistics Minimum	0.0043	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	-5.438
Number of Valid Samples Raw Statistics Minimum Maximum	0.0043 1.69	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-5.438 0.528 -4.516
Number of Valid Samples Raw Statistics Minimum Maximum Mean	0.0043 1.69 0.0419	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.438 0.528 -4.516
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	0.0043 1.69 0.0419 0.0052	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.438 0.528 -4.516
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	0.0043 1.69 0.0419 0.0052 0.15	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.438 0.525
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0043 1.69 0.0419 0.0052 0.15 3.573 8.834	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-5.438 0.528 -4.516
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0043 1.69 0.0419 0.0052 0.15 3.573	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-5.438 0.528 -4.516
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0043 1.69 0.0419 0.0052 0.15 3.573 8.834	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-5.438 0.528 -4.516 1.296
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test	0.0043 1.69 0.0419 0.0052 0.15 3.573 8.834	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test	-5.438 0.525 -4.516 1.296
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic	0.0043 1.69 0.0419 0.0052 0.15 3.573 8.834 Relevant UCL	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Lilliefors Test Statistic	-5.438 0.529 -4.516 1.290
Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level	0.0043 1.69 0.0419 0.0052 0.15 3.573 8.834 Relevant UCL	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level	-5.438 0.529 -4.516 1.299
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level	0.0043 1.69 0.00419 0.0052 0.15 3.573 8.834 Relevant UCL 0.401 0.0688	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution	-5.438 0.52 -4.516 1.29 0.35 0.06
Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	0.0043 1.69 0.0419 0.0052 0.15 3.573 8.834 Relevant UCL	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	-5.438 0.529 -4.516 1.299 0.359 0.066
Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.0043 1.69 0.0419 0.0052 0.15 3.573 8.834 Relevant UCL 0.401 0.0688	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-5.438 0.529 -4.516 1.296 0.359 0.068
Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	0.0043 1.69 0.00419 0.0052 0.15 3.573 8.834 Relevant UCL 0.401 0.0688	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-5.438 0.525 -4.516 1.296 0.359 0.068
Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.0043 1.69 0.0419 0.0052 0.15 3.573 8.834 Relevant UCL 0.401 0.0688	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-5.438 0.525 -4.516 1.296 0.359 0.068

Leader (Line course de di	0.470	Date do not follow a Discornable Distribution (2015)	
k star (bias corrected)	0.472	Data do not follow a Discernable Distribution (0.05)	Letter representation of the second of the s
Theta Star	0.0889		
nu star	156.6	Namacra-stric Class-st	tanasaka aki Umasa katika ka
Approximate Chi Square Value (.05)	128.7	Nonparametric Statistics	0.061
Adjusted Level of Significance	0.0486		0.061
Adjusted Chi Square Value	128.4	95% Jackknife UCL 95% Standard Bootstrap UCL	0.0611
Anderson Doubles Total Obstacles	07.4	·	0.0864
Anderson-Darling Test Statistic	27.1	95% Bootstrap-t UCL	0.0864
Anderson-Darling 5% Critical Value	0.826	95% Hall's Bootstrap UCL	
Kolmogorov-Smirnov Test Statistic	0.369	95% Percentile Bootstrap UCL	0.0627 0.0746
Kolmogorov-Smirnov 5% Critical Value	0.0768	·	0.0740
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	
		97.5% Chebyshev(Mean, Sd) UCL	0.115
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.158
95% Approximate Gamma UCL	0.051		many per dimensional
95% Adjusted Gamma UCL	0.0511		
			A 22-
Potential UCL to Use	10-lana (10) a - 100 a 100	Use 97.5% Chebyshev (Mean, Sd) UCL	0.115
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		· · · · · · · · · · · · · · · · · · ·
Result or 1/2 SDL (acenaphthylene)			
nesult of 172 ode (acenaphinisene)	***************************************		
	General S	Statistics	
Number of Valid Samples	166	Number of Unique Samples	79
Number of Valid Samples	100	Number of omique samples	73
Raw Statistics		Log-transformed Statistics	
Minimum	0.0049		-5.312
Maximum	1.2	Maximum of Log Data	0.182
Mean	0.042	Mean of log Data	-4.467
Median	0.042		1.213
SD	0.149	SD Of log Data	
Coefficient of Variation	3.543		······································
Skewness	6.646		y
Skewiless	0.040		
	Relevant UC	2) Statistics	Grap Lightly and Living States
Normal Distribution Test	veievaill UC	Lognormal Distribution Test	
Lilliefors Test Statistic	0.402	Lilliefors Test Statistic	0.365
Lilliefors Critical Value	0.402		0.363
Data not Normal at 5% Significance Level	0.0000	Data not Lognormal at 5% Significance Level	0.0000
Data not ivolitial at 5 % Significance Level	mmamamamama union		rinantia, ascent sinanabiditira
Assuming Normal Distribution		Assuming Lognormal Distribution	NEW COLUMNSON IS NOT THE PARTY.
95% Student's-t UCL	0.0612		0.0299
95% UCLs (Adjusted for Skewness)	0.0012	95% Chebyshev (MVUE) UCL	0.0298
95% docts (Adjusted for Skewness) 95% Adjusted-CLT UCL	0.0674		0.0362
		99% Chebyshev (MVUE) UCL	0.0418
95% Modified-t UCL	0.0621	33% Chebysnev (NIVOE) UCL	0.0520
Gamma Distribution Test		Data Distribution	d have 160 x 15 hered day 1 4 her 161 - 161 - 161 - 161 - 161
	0.400		
k star (bias corrected)	0.486	Data do not follow a Discernable Distribution (0.05)	· · · · · · · · · · · · · · · · · · ·
Theta Star	0.0865		
nu star	161.3	Non-one and the state of the st	
Approximate Chi Square Value (.05)	133	Nonparametric Statistics	0.004
Adjusted Level of Significance	0.0486	95% CLT UCL	0.061

Adjusted Chi Square Value	132.7	95% Jackknife UCL	0.0612
		95% Standard Bootstrap UCL	0.0608
Anderson-Darling Test Statistic	28.55	95% Bootstrap-t UCL	0.0779
Anderson-Darling 5% Critical Value	0.822	95% Hall's Bootstrap UCL	0.062
Kolmogorov-Smirnov Test Statistic	0.375	95% Percentile Bootstrap UCL	0.0624
Kolmogorov-Smirnov 5% Critical Value	0.0767	95% BCA Bootstrap UCL	0.068
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.0924
		97.5% Chebyshev(Mean, Sd) UCL	0.114
Assuming Gamma Distribution	l	99% Chebyshev(Mean, Sd) UCL	0.157
95% Approximate Gamma UCL	0.051		
95% Adjusted Gamma UCL	0.0511		

Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.114
sult or 1/2 SDL (acetone)	General Sta		
Number of Valid Samples	83	Number of Unique Samples	77
Raw Statistics		Log-transformed Statistics	
Minimum	8.5500E-5	Minimum of Log Data	-9.367
Maximum	0.16	Maximum of Log Data	-1.833
Mean	0.0145	Mean of log Data	-6.403
Median	0.0021	SD of log Data	2.342
SD	0.0317		
Coefficient of Variation	2.181		Heretick and reserve and desired the lower
Skewness	3.374		
The second secon	Relevant UCL	Statistics	
Normal Distribution Test		Lognormal Distribution Test	i di ida agama ana ga ba aga i ama ana ana an
Lilliefors Test Statistic	0.328	Lilliefors Test Statistic	0.26
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.097
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	I NA MOTTA Position property Marcola consessed
95% Student's-t UCL	0.0203	95% H-UCL	0.068
95% UCLs (Adjusted for Skewness)	<u> </u>	95% Chebyshev (MVUE) UCL	0.065
95% Adjusted-CLT UCL	0.0216	97.5% Chebyshev (MVUE) UCL	0.083
95% Modified-t UCL	0.0205	99% Chebyshev (MVUE) UCL	0.12
Gamma Distribution Test		Data Distribution	***************************************
k star (bias corrected)	0.312	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.0466		***************************************
nu star	51.74		THE CONTROL OF THE CONTROL OF THE
Approximate Chi Square Value (.05)	36.22	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.02
Adjusted Chi Square Value	35.99	95% Jackknife UCL	0.02
		95% Standard Bootstrap UCL	0.02
Anderson-Darling Test Statistic	5.243	95% Bootstrap-t UCL	0.02
	0.862	95% Hall's Bootstrap UCL	0.02
Anderson-Darling 5% Critical Value		95% Halle Rhhieran III I	

	1.07		
Kolmogorov-Smirnov 5% Critical Value	0.106	95% BCA Bootstrap UCL	0.021
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.029
ministriken in siem de weren from bildhimo mortus essanias en en ministrika sesania-menditu essania menditu essania		97.5% Chebyshev(Mean, Sd) UCL	0.036
Assuming Gamma Distribution	lancore remarkation	99% Chebyshev(Mean, Sd) UCL	0.049
95% Approximate Gamma UCL	0.0207		MP-0-101-00-1041-11-1-1-1-1-1-1
95% Adjusted Gamma UCL	0.0209		
			44-1W40160111111111111111111111111111111111
Potential UCL to Use	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Use 99% Chebyshev (Mean, Sd) UCL	0.04
sult or 1/2 SDL (aluminum)			(M. A.) (Alfano processes on for a filter) from the control of the
	General S	Statistics	Produktyk sanski strakaj kraktoras (**)
Number of Valid Samples	166	Number of Unique Samples	149
Raw Statistics		Log-transformed Statistics	***************************************
Minimum	414	Minimum of Log Data	6.02
Maximum	15700	Maximum of Log Data	9.66
Mean	6452	Mean of log Data	8.56
Median	6175	SD of log Data	0.71
SD	3601		
Coefficient of Variation	0.558		
Skewness	0.362		
F	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.0643	Lilliefors Test Statistic	0.10
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.06
Data appear Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	6914	95% H-UCL	7566
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	
			8609
95% Adjusted-CLT UCL	6920	97.5% Chebyshev (MVUE) UCL	
	6920 6916	, , ,	8609
95% Adjusted-CLT UCL 95% Modified-t UCL		97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	8609 9402
95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test	6916	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	8609 9402
95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected)	2.531	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	8609 9402
95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star	2.531 2550	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	8609 9402
95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star	2.531 2550 840.1	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Normal at 5% Significance Level	8609 9402
95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05)	2.531 2550	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	8609 9402
95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance	2.531 2550 840.1 773.9	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Normal at 5% Significance Level Nonparametric Statistics	8609 9402 10961
95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05)	2.531 2550 840.1 773.9 0.0486	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Normal at 5% Significance Level Nonparametric Statistics 95% CLT UCL	8609 9402 10961
95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value	2.531 2550 840.1 773.9 0.0486	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Normal at 5% Significance Level Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL	8609 9402 10961 6912 6914
95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance	2.531 2550 840.1 773.9 0.0486 773.3	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Normal at 5% Significance Level Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL	8609 9402 10961 6912 6914 6909
95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value	2.531 2550 840.1 773.9 0.0486 773.3	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Normal at 5% Significance Level Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL	8609 9402 10961 6912 6914 6909 6915
95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic	2.531 2550 840.1 773.9 0.0486 773.3	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Normal at 5% Significance Level Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL	8609 9402 10961 6912 6914 6909 6915 6904
95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value	2.531 2550 840.1 773.9 0.0486 773.3 1.49 0.762 0.0875 0.0731	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Normal at 5% Significance Level Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Bootstrap UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL	8609 9402 10961 6912 6914 6909 6915 6904
95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic	2.531 2550 840.1 773.9 0.0486 773.3 1.49 0.762 0.0875 0.0731	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Normal at 5% Significance Level Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL	6912 6914 6909 6915 6904 6905
95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value	2.531 2550 840.1 773.9 0.0486 773.3 1.49 0.762 0.0875 0.0731	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Normal at 5% Significance Level Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Bootstrap UCL 95% Bootstrap-t UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% BCA Bootstrap UCL	8609 9402 10961 6912 6914 6909 6915 6904 6905 6915 7670

Use 95% Student's-t UCL	6914

Number of Unique Samples	103
Log-transformed Statistics	ent de san de la la constante de la Constante
Log-transformed Statistics Minimum of Log Data	-5.310
Maximum of Log Data	-5.310
Mean of log Data	-4.02
SD of log Data	-4.02. 1.50
Lognormal Distribution Test	*
Lognormal Distribution Test Lilliefors Test Statistic	0.2
Lilliefors Test Statistic Lilliefors Critical Value	0.2
Lilliefors Critical Value Data not Lognormal at 5% Significance Level	U.U
Assuming Lognormal Distribution	
95% H-UCL	0.0
95% Chebyshev (MVUE) UCL	0.1
97.5% Chebyshev (MVUE) UCL	0.1
99% Chebyshev (MVUE) UCL	0.1
Data Distribution	.naalineensi, siitti
a do not follow a Discernable Distribution (0.05	5)
Nonparametric Statistics	***************************************
95% CLT UCL	0.1
95% Jackknife UCL	0.1
95% Standard Bootstrap UCL	0.1
95% Bootstrap-t UCL	0.1
95% Hall's Bootstrap UCL	0.1
95% Percentile Bootstrap UCL	0.1
95% BCA Bootstrap UCL	0.1
95% Chebyshev(Mean, Sd) UCL	0.1
97.5% Chebyshev(Mean, Sd) UCL	0.2
99% Chebyshev(Mean, Sd) UCL	0.2
	AAA
LL- 07 EW Chahyshov (Maan Sd) IIC	0.2

	General	Statistics	management of the management of the second
Number of Valid Samples	166	Number of Unique Samples	83
David Atlanta	taria rawa Artagan (aga sa gang a tang amung m	A Company of the Comp	alar e managarahar mani
Raw Statistics	0.005	Log-transformed Statistics	0.054
Minimum	0.095	Minimum of Log Data	-2.354
Maximum Mean	5.51 1.023	Maximum of Log Data Mean of log Data	1.70 -0.654
Median	0.24	SD of log Data	1.19
SD	1.14	3D OI log Data	1.13
Coefficient of Variation	. 1.114		
Skewness	1.329		
	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.291	Lilliefors Test Statistic	0.26
Lilliefors Critical Value	0.0688	<u> </u>	0.06
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	1.17	95% H-UCL	1.31
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.59
95% Adjusted-CLT UCL	1.179	97.5% Chebyshev (MVUE) UCL	1.82
95% Modified-t UCL	1.171	99% Chebyshev (MVUE) UCL	2.29
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.856	Data do not follow a Discernable Distribution (0.05)	
Theta Star	1,196	Data do not follow a Discernable Distribution (0.00)	
nu star	284.1		
Approximate Chi Square Value (.05)	246	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	-	1.16
Adjusted Chi Square Value	245.7	95% Jackknife UCL	1.17
		95% Standard Bootstrap UCL	1.16
Anderson-Darling Test Statistic	12.23	95% Bootstrap-t UCL	1.17
Anderson-Darling 5% Critical Value	0.79	95% Hall's Bootstrap UCL	1.18
Kolmogorov-Smirnov Test Statistic	0.286	95% Percentile Bootstrap UCL	1.17
Kolmogorov-Smirnov 5% Critical Value	0.0749	95% BCA Bootstrap UCL	1.16
Data not Gamma Distributed at 5% Significance Lev	/el	95% Chebyshev(Mean, Sd) UCL	1.40
		97.5% Chebyshev(Mean, Sd) UCL	1.57
Assuming Gamma Distribution	***********************	99% Chebyshev(Mean, Sd) UCL	1.90
95% Approximate Gamma UCL	1.182		
95% Adjusted Gamma UCL	1.183		
Potential UCL to Use	Marata (pagas parata)	Use 97.5% Chebyshev (Mean, Sd) UCL	1.57
It or 1/2 SDL (aroclor-1254)			
			to Marking and when place the standard and a
THE PERSON NAMED OF THE PERSON	General S	ymmenomenomia andonomia andonomia andonomia andonomia andonomia andonomia andonomia andonomia andonomia andonomia Etatiatia	

Raw Statistics		Log-transformed Statistics	1
Minimum	0.0016	Minimum of Log Data	-6.422
Maximum	11.5	Maximum of Log Data	2.442
			-5.38
Mean	0.205	Mean of log Data	
Median	0.0019	SD of log Data	1.955
SD	1.131		
Coefficient of Variation	5.523		
Skewness	8.01		
F	Relevant UC		
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.443	Lilliefors Test Statistic	0.402
Lilliefors Critical Value	0.0672	Lilliefors Critical Value	0.0672
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	talatan batan iya ku ma kaba kili uba alii da da	Assuming Lognormal Distribution	
95% Student's-t UCL	0.347	95% H-UCL	0.0496
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0618
95% Adjusted-CLT UCL	0.401	97.5% Chebyshev (MVUE) UCL	0.0754
95% Modified-t UCL	0.355	99% Chebyshev (MVUE) UCL	0.102
Gamma Distribution Test	0.10=	Data Distribution	
k star (bias corrected)	0.195	Data do not follow a Discernable Distribution (0.05)
Theta Star	1.049		
nu star	67.95		
Approximate Chi Square Value (.05)	49.98	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	0.346
Adjusted Chi Square Value	49.85	95% Jackknife UCL	0.347
		95% Standard Bootstrap UCL	0.344
Anderson-Darling Test Statistic	46.09	95% Bootstrap-t UCL	0.573
Anderson-Darling 5% Critical Value	0.922	95% Hall's Bootstrap UCL	0.86
Kolmogorov-Smirnov Test Statistic	0.437	95% Percentile Bootstrap UCL	0.36
Kolmogorov-Smirnov 5% Critical Value	0.0782	95% BCA Bootstrap UCL	0.439
Data not Gamma Distributed at 5% Significance Lev	vel	95% Chebyshev(Mean, Sd) UCL	0.578
	ant and a fact to the angle of the party of	97.5% Chebyshev(Mean, Sd) UCL	0.74
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.058
95% Approximate Gamma UCL	0.278		
95% Adjusted Gamma UCL	0.279		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.74
Result or 1/2 SDL (arsenic)			
Number of Valid Samples	General S	Statistics Number of Unique Samples	146
	-		
Raw Statistics		Log-transformed Statistics	manus i ka Madana d an by adair dilga anida ay ma
Minimum	0.085	Minimum of Log Data	-2.465
Maximum	24.3	Maximum of Log Data	3.19
Mean	3.331	Mean of log Data	0.67
Median	2.68	SD of log Data	1.225

A REAL PROPERTY AND ENTER A SECOND			
SD	3.269		
Coefficient of Variation	0.981		
Skewness	2.631		
	Dolovant I IC	CL Statistics	
Normal Distribution Test	Relevant UC	Lognormal Distribution Test	and the second s
Lilliefors Test Statistic	0.16	Lilliefors Test Statistic	0.15
Lilliefors Critical Value	0.0688		0.06
Data not Normal at 5% Significance Level	1 0.0000	Data not Lognormal at 5% Significance Level	0.00
Assuming Normal Distribution	Aurent Land Control of the Control o	Assuming Lognormal Distribution	
95% Student's-t UCL	3.751	95% H-UCL	5.18
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	6.31
95% Adjusted-CLT UCL	3.804	97.5% Chebyshev (MVUE) UCL	7.26
95% Modified-t UCL	3.76	99% Chebyshev (MVUE) UCL	9.14
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.057	Data do not follow a Discernable Distribution (0.05)
Theta Star	3.15		
nu star	351.1		
Approximate Chi Square Value (.05)	308.6	Nonparametric Statistics	
Adjusted Level of Significance	0.0486		3.74
Adjusted Chi Square Value	308.3	95% Jackknife UCL	3.75
		95% Standard Bootstrap UCL	3.73
Anderson-Darling Test Statistic	1.15	95% Bootstrap-t UCL	3.82
Anderson-Darling 5% Critical Value	0.782	95% Hall's Bootstrap UCL	3.83
Kolmogorov-Smirnov Test Statistic	0.0872	95% Percentile Bootstrap UCL	3.76
Kolmogorov-Smirnov 5% Critical Value	0.0744	95% BCA Bootstrap UCL	3.78
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	4.43
		97.5% Chebyshev(Mean, Sd) UCL	4.91
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	5.85
95% Approximate Gamma UCL	3.789		······································
95% Adjusted Gamma UCL	3.793		***************************************
Data-Nati IIOI ta IIo		Line O.7. CW. Check and Advance Od. MO.	4.01
Potential UCL to Use	ş. 1. 11 - 11 - 11 - 11 - 11 - 11 - 11 -	Use 97.5% Chebyshev (Mean, Sd) UCL	4.91
esult or 1/2 SDL (barium)			
	General S	Statistics	
Number of Valid Samples	166	Number of Unique Samples	135
Raw Statistics		Log-transformed Statistics	(sainte basal e Espelija said est das
Minimum	18.6	Minimum of Log Data	2.92
Maximum	2180	Maximum of Log Data	7.68
Mean	237.4	Mean of log Data	5.10
Median	139.5	SD of log Data	0.78
SD	274.8	3D OI IOU DAIA	U./D
Coefficient of Variation	2/4.8 1.158		
Skewness	3.69		
OVANIESS	5.03		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.276	Lilliefors Test Statistic	0.126
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.0688
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	antruccionary densy over we
Assuming Normal Distribution 95% Student's-t UCL	272.7	Assuming Lognormal Distribution 95% H-UCL	254.2
95% UCLs (Adjusted for Skewness)	212.1	95% Chebyshev (MVUE) UCL	292.4
95% Adjusted For Skewness) 95% Adjusted-CLT UCL	279	97.5% Chebyshev (MVUE) UCL	321.9
95% Adjusted-CET UCL	273.7	99% Chebyshev (MVUE) UCL	379.8
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.489	Data do not follow a Discernable Distribution (0.05)
Theta Star	159.4		
nu star	494.5		hard-township or the second
Approximate Chi Square Value (.05)	443.9	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	272.5
Adjusted Chi Square Value	443.5	95% Jackknife UCL	272.7
		95% Standard Bootstrap UCL	271.5
Anderson-Darling Test Statistic	7.901	95% Bootstrap-t UCL	282.1
Anderson-Darling 5% Critical Value	0.771	95% Hall's Bootstrap UCL	283.4
Kolmogorov-Smirnov Test Statistic	0.186	95% Percentile Bootstrap UCL	274.8
Kolmogorov-Smirnov 5% Critical Value	0.0738	95% BCA Bootstrap UCL	279.3
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	330.4
	and	97.5% Chebyshev(Mean, Sd) UCL	370.6
Assuming Gamma Distribution	1	99% Chebyshev(Mean, Sd) UCL	449.6
95% Approximate Gamma UCL	264.4		
95% Adjusted Gamma UCL	264.7		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	330.4
Result or 1/2 SDL (benzene)			
	General S	Vatinia	
Number of Valid Samples	83	Number of Unique Samples	78
Tumbor of Tana Samples		Tullion of ortique conspice	, , , , , , , , , , , , , , , , , , ,
Raw Statistics		Log-transformed Statistics	
Minimum	4.7500E-5	Minimum of Log Data	-9.955
Maximum	0.0221	Maximum of Log Data	-3.812
Mean	0.0040	Mean of log Data	-5.975
Median	0.0032	SD of log Data	1.26
SD	0.0036		
Coefficient of Variation	0.883		
Skewness	2.64		
F	Relevant UC	L Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.135	Lilliefors Test Statistic	0.182
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.0973
Data not Normal at 5% Significance Level	L	Data not Lognormal at 5% Significance Level	warranga katanga katang matanga

Assuming Normal Distribution		Acquiried Lognormal Distriction	
Assuming Normal Distribution 95% Student's-t UCL	0.0047	Assuming Lognormal Distribution 95% H-UCL	0.007
95% UCLs (Adjusted for Skewness)	0.0047	95% Chebyshev (MVUE) UCL	0.007
95% Adjusted-CLT UCL	0.0048	97.5% Chebyshev (MVUE) UCL	0.003
95% Modified-t UCL	0.0048	99% Chebyshev (MVUE) UCL	0.011
33 /6 Mountain OCL	0.0047	33% CiteDySileV (MVOE) OCL	0.013
Gamma Distribution Test	***************************************	Data Distribution	
k star (bias corrected)	1.16	Data do not follow a Discernable Distribution (0.05)
Theta Star	0.0035		
nu star	192.5		
Approximate Chi Square Value (.05)	161.4	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.004
Adjusted Chi Square Value	160.9	95% Jackknife UCL	0.004
		95% Standard Bootstrap UCL	0.004
Anderson-Darling Test Statistic	1.58	95% Bootstrap-t UCL	0.004
Anderson-Darling 5% Critical Value	0.778	95% Hall's Bootstrap UCL	0.005
Kolmogorov-Smirnov Test Statistic	0.114	95% Percentile Bootstrap UCL	0.004
Kolmogorov-Smirnov 5% Critical Value	0.101	95% BCA Bootstrap UCL	0.004
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.005
		97.5% Chebyshev(Mean, Sd) UCL	0.006
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.008
95% Approximate Gamma UCL	0.0048		
95% Adjusted Gamma UCL	0.0048		
	1	I	
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.006
	General S		0.006
	General S		110
Sult or 1/2 SDL (benzo(a)anthracene) Number of Valid Samples		Statistics Number of Unique Samples	
Sult or 1/2 SDL (benzo(a)anthracene) Number of Valid Samples Raw Statistics	166	Statistics Number of Unique Samples Log-transformed Statistics	110
Number of Valid Samples Raw Statistics Minimum	0.0044	Statistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data	110
Sult or 1/2 SDL (benzo(a)anthracene) Number of Valid Samples Raw Statistics Minimum Maximum	0.0044 5.02	Statistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	110 -5.415 1.613
Number of Valid Samples Raw Statistics Minimum Maximum Mean	0.0044 5.02 0.268	Statistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.415 1.613 -3.885
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	0.0044 5.02 0.268 0.0054	Statistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	110 -5.415 1.613
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	0.0044 5.02 0.268 0.0054 0.765	Statistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.415 1.613 -3.885
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation	0.0044 5.02 0.268 0.0054 0.765 2.854	Statistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.415 1.613 -3.885
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	0.0044 5.02 0.268 0.0054 0.765	Statistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.415 1.613 -3.885
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0044 5.02 0.268 0.0054 0.765 2.854	Statistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-5.415 1.613 -3.885
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test	0.0044 5.02 0.268 0.0054 0.765 2.854 4.224	Constraint Statistics Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test	-5.415 1.613 -3.885 2.05
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic	0.0044 5.02 0.268 0.0054 0.765 2.854 4.224 Relevant UC	Statistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test Lilliefors Test Statistic	110 -5.415 1.613 -3.885 2.05
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value	0.0044 5.02 0.268 0.0054 0.765 2.854 4.224	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value	110 -5.415 1.613 -3.885 2.05
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic	0.0044 5.02 0.268 0.0054 0.765 2.854 4.224 Relevant UC	Statistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test Lilliefors Test Statistic	110 -5.415 1.613 -3.885 2.05
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value	0.0044 5.02 0.268 0.0054 0.765 2.854 4.224 Relevant UC	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value	110 -5.415 1.613 -3.885 2.05
Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level	0.0044 5.02 0.268 0.0054 0.765 2.854 4.224 Relevant UC	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level	110 -5.415 1.613 -3.885 2.05
Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	0.0044 5.02 0.268 0.0054 0.765 2.854 4.224 Relevant UC 0.395 0.0688	Cog-transformed Statistics Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution	110 -5.415 1.613 -3.885 2.05 0.315 0.068
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	0.0044 5.02 0.268 0.0054 0.765 2.854 4.224 Relevant UC 0.395 0.0688	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	-5.415 1.613 -3.885 2.05 0.315

Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.272	Data do not follow a Discernable Distribution (0.05))
Theta Star	0.986		
nu star	90.22		
Approximate Chi Square Value (.05)	69.32	Nonparametric Statistics	-tT
Adjusted Level of Significance	0.0486	95% CLT UCL	0.366
Adjusted Chi Square Value	69.16	95% Jackknife UCL	0.366
		95% Standard Bootstrap UCL	0.362
Anderson-Darling Test Statistic	26.03	95% Bootstrap-t UCL	0.399
Anderson-Darling 5% Critical Value	0.881	95% Hall's Bootstrap UCL	0.394
Kolmogorov-Smirnov Test Statistic	0.324	95% Percentile Bootstrap UCL	0.37
Kolmogorov-Smirnov 5% Critical Value	0.0791	95% BCA Bootstrap UCL	0.385
Data not Gamma Distributed at 5% Significance Lev	rel	95% Chebyshev(Mean, Sd) UCL	0.527
		97.5% Chebyshev(Mean, Sd) UCL	0.639
Assuming Gamma Distribution	•	99% Chebyshev(Mean, Sd) UCL	0.859
95% Approximate Gamma UCL	0.349		
95% Adjusted Gamma UCL	0.35		
	4.411.111.111.111.111.111.111.111.111.1		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.859
			ne. promoto tomourantino
Raw Statistics		Log-transformed Statistics	
Minimum	0.0044	Minimum of Log Data	-5.419
Minimum Maximum	4.88	Minimum of Log Data Maximum of Log Data	1.585
Minimum Maximum Mean	4.88 0.347	Minimum of Log Data Maximum of Log Data Mean of log Data	1.585 -3.193
Minimum Maximum Mean Median	4.88 0.347 0.0253	Minimum of Log Data Maximum of Log Data	1.585
Minimum Maximum Mean Median SD	4.88 0.347 0.0253 0.856	Minimum of Log Data Maximum of Log Data Mean of log Data	1.585 -3.193
Minimum Maximum Mean Median	4.88 0.347 0.0253	Minimum of Log Data Maximum of Log Data Mean of log Data	1.585 -3.193
Minimum Maximum Mean Median SD Coefficient of Variation Skewness	4.88 0.347 0.0253 0.856 2.468 3.524	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	1.585 -3.193
Minimum Maximum Mean Median SD Coefficient of Variation Skewness	4.88 0.347 0.0253 0.856 2.468	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	1.585 -3.193
Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test	4.88 0.347 0.0253 0.856 2.468 3.524	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Statistics Lognormal Distribution Test	1.585 -3.193 2.033
Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Lilliefors Test Statistic	4.88 0.347 0.0253 0.856 2.468 3.524 elevant UCL S	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Statistics Lognormal Distribution Test Lilliefors Test Statistic	1.585 -3.193 2.033 0.137
Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test	4.88 0.347 0.0253 0.856 2.468 3.524	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Statistics Lognormal Distribution Test	1.585 -3.193 2.033
Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level	4.88 0.347 0.0253 0.856 2.468 3.524 elevant UCL S	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level	1.585 -3.193 2.033 0.137
Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	4.88 0.347 0.0253 0.856 2.468 3.524 elevant UCL S 0.348 0.0688	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution	1.585 -3.193 2.033 0.137 0.0688
Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	4.88 0.347 0.0253 0.856 2.468 3.524 elevant UCL S	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	1.585 -3.193 2.033 2.033 0.137 0.0688
Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	4.88 0.347 0.0253 0.856 2.468 3.524 elevant UCL S 0.348 0.0688	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	1.585 -3.193 2.033 0.137 0.0688 0.54 0.666
Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	4.88 0.347 0.0253 0.856 2.468 3.524 elevant UCL S 0.348 0.0688 0.457	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	1.585 -3.193 2.033 2.033 0.137 0.0688 0.54 0.666 0.819
Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	4.88 0.347 0.0253 0.856 2.468 3.524 elevant UCL S 0.348 0.0688	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	1.585 -3.193 2.033 0.137 0.0688 0.54 0.666
Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	4.88 0.347 0.0253 0.856 2.468 3.524 elevant UCL S 0.348 0.0688 0.457	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	1.585 -3.193 2.033 2.033 0.137 0.0688 0.54 0.666 0.819
Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL	4.88 0.347 0.0253 0.856 2.468 3.524 elevant UCL S 0.348 0.0688 0.457	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	1.585 -3.193 2.033 2.033 0.137 0.0688 0.54 0.666 0.819 1.12
Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test	4.88 0.347 0.0253 0.856 2.468 3.524 elevant UCL S 0.348 0.0688 0.457 0.475 0.46	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	1.585 -3.193 2.033 2.033 0.137 0.0688 0.54 0.666 0.819 1.12

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	82.00	Name and Challeton	
Approximate Chi Square Value (.05)	82.89	Nonparametric Statistics 95% CLT UCL	0.456
Adjusted Level of Significance	0.0486 82.71	95% Jackknife UCL	0.450
Adjusted Chi Square Value	02./1	95% Standard Bootstrap UCL	0.457
Anderson-Darling Test Statistic	13.58	95% Bootstrap-t UCL	0.481
Anderson-Darling 19st Statistic Anderson-Darling 5% Critical Value	0,864	95% Bootstrap UCL	0.476
Kolmogorov-Smirnov Test Statistic	0.864	95% Percentile Bootstrap UCL	0.470
Kolmogorov-Smirnov 7est Statistic	0.217	95% BCA Bootstrap UCL	0.482
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.432
Data not Gamina Distributed at 3 % Significance Le	VOI	97.5% Chebyshev(Mean, Sd) UCL	0.762
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.008
95% Approximate Gamma UCL	0.442	33% Chebyshev(Weah, 3d) Col	1.000
95% Adjusted Gamma UCL	0.442		
95% Adjusted Gamina OCL	0.443		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	1.008
Result or 1/2 SDL (benzo(b)fluoranthene)			
	General S	Statistics	
Number of Valid Samples	166	Number of Unique Samples	145
Raw Statistics	A 144 (144) A 144	Log-transformed Statistics	
Minimum	0.0033	Minimum of Log Data	-5.688
Maximum	5.97	Maximum of Log Data	1.787
Mean	0.466	Mean of log Data	-2.669
Median	0.0825	SD of log Data	2.179
SD	1.023		· · · · · · · · · · · · · · · · · · ·
Coefficient of Variation	2.192		
Skewness	3.432		
	Relevant UC	1 Statistics	
Normal Distribution Test	ioiorani oo	Lognormal Distribution Test	
Lilliefors Test Statistic	0.325	Lilliefors Test Statistic	0.16
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.068
Data not Normal at 5% Significance Level	as a second	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.598	95% H-UCL	1.322
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.605
95% Adjusted-CLT UCL	0.62	97.5% Chebyshev (MVUE) UCL	1.992
95% Modified-t UCL	0.601	99% Chebyshev (MVUE) UCL	2.752
Gamma Distribution Test		Data Distribution	nde Mariana de Caracteria de Antonio de Anto
k star (bias corrected)	0.35	Data do not follow a Discernable Distribution (0.05)
Theta Star	1.332		
nu star	116.2		D SANGER SELECT TRANSPORTER FOR STREET CO.
Approximate Chi Square Value (.05)	92.33	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL \	0.597
Adjusted Chi Square Value	92.15	95% Jackknife UCL	0.598
		95% Standard Bootstrap UCL	0.6
Anderson-Darling Test Statistic	6.109	95% Bootstrap-t UCL	0.629

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	0.050		0.004
Anderson-Darling 5% Critical Value	0.856	95% Hall's Bootstrap UCL	0.624
Kolmogorov-Smirnov Test Statistic	0.144	95% Percentile Bootstrap UCL	0.604
Kolmogorov-Smirnov 5% Critical Value	0.0781	95% BCA Bootstrap UCL	0.609
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.812
		97.5% Chebyshev(Mean, Sd) UCL	0.962
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.256
95% Approximate Gamma UCL	0.587		. A
95% Adjusted Gamma UCL	0.588		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	1.256
			VACATAR SHIPLES SHAPE
Result or 1/2 SDL (benzo(g,h,i)perylene)			
	General S	Statistics	entagarindan ber propriiginantiden sed sket
Number of Valid Samples	166	Number of Unique Samples	125
Raw Statistics	1,5-127-1-127-1-127-1-1-1-1-1-1-1-1-1-1-1-1	Log-transformed Statistics	nal by have a set of the state of the state of the second state of
Minimum	0.0044	Minimum of Log Data	-5.418
Maximum	4.24	Maximum of Log Data	1.445
Mean	0.251	Mean of log Data	-3.365
Median	0.026	SD of log Data	1.982
SD	0.606		
Coefficient of Variation	2.415		an managaman and
Skewness	3.815		M
Normal Distribution Test Lilliefors Test Statistic	Relevant UC 0.342	L Statistics Lognormal Distribution Test Lilliefors Test Statistic	0.221
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.068
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.329	95% H-UCL	0.40
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.497
95% Adjusted-CLT UCL	0.343	97.5% Chebyshev (MVUE) UCL	0.609
95% Modified-t UCL	0.331	99% Chebyshev (MVUE) UCL	0.83
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.338	Data do not follow a Discernable Distribution (0.05)
Theta Star	0.742		
nu star	112.4		non-or-processing stage
Approximate Chi Square Value (.05)	88.9	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	0.328
Adjusted Level of Significance Adjusted Chi Square Value	88.72	95% Jackknife UCL	0.329
Aujusieu Cili Squale Value	00.72	95% Standard Bootstrap UCL	0.32
Anderson-Darling Test Statistic	13.2	95% Standard Bootstrap UCL	0.35
		·	0.35
Anderson-Darling 5% Critical Value	0.859	95% Hall's Bootstrap UCL	
Kolmogorov-Smirnov Test Statistic	0.196	95% Percentile Bootstrap UCL	0.329
Kolmogorov-Smirnov 5% Critical Value	0.0782	95% BCA Bootstrap UCL	0.342
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.456
		97.5% Chebyshev(Mean, Sd) UCL	0.54

THE PROPERTY OF THE PROPERTY AND PROPERTY OF THE PROPERTY OF T			
Accuming Commo Distribution		99% Chebyshev(Mean, Sd) UCL	0.719
Assuming Gamma Distribution 95% Approximate Gamma UCL	0.317	99% Chebysnev(Mean, Sd) UCL	0./18
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.317		
55% Adjusted Gamma UCL	0.318		<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.54
i delital doc to de	runn hampart da Cadon (saparet saparet	Ose 97.5% Chebyshev (Weah, 3d) OCL	0.040
	vi-m-d-plata;,,t,t,		
Result or 1/2 SDL (benzo(k)fluoranthene)			
	General S	Statistics	
Number of Valid Samples	166	Number of Unique Samples	92
			handli olg fragny hit berliget gan
Raw Statistics		Log-transformed Statistics	. 446744. And have - on 2 1/244/An and 1/24
Minimum	0.0068	Minimum of Log Data	-4.984
Maximum	4.25	Maximum of Log Data	1.44
Mean	0.157	Mean of log Data	-3.763
Median	0.0082	SD of log Data	1.66
SD	0.457		
Coefficient of Variation	2.917		
Skewness	5.523		***************************************
	to black of a for some comment to the Maddition of the some comment of		
	Relevant UC		
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.372	Lilliefors Test Statistic	0.33
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.06
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
			-wanaran-manan-man
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.215	95% H-UCL	0.134
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.16
95% Adjusted-CLT UCL	0.231	97.5% Chebyshev (MVUE) UCL	0.20
95% Modified-t UCL	0.218	99% Chebyshev (MVUE) UCL	0.26
Ocean Distillation Total		Data Distribution	
Gamma Distribution Test k star (bias corrected)	0.35	Data Distribution	
Theta Star	0.35	Data do not follow a Discernable Distribution (0.05)	
nu star	116.1		**********************
Approximate Chi Square Value (.05)	92.22	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	0.21
Adjusted Chi Square Value	92.03	95% Jackknife UCL	0.21
Adjusted on equal value	02.00	95% Standard Bootstrap UCL	0.21
Anderson-Darling Test Statistic	26.6	95% Bootstrap-t UCL	0.24
Anderson-Darling 5% Critical Value	0.856	95% Hall's Bootstrap UCL	0.24
Kolmogorov-Smirnov Test Statistic	0.344	95% Percentile Bootstrap UCL	0.21
Kolmogorov-Smirnov 7est Statistic	0.0781	95% BCA Bootstrap UCL	0.23
Data not Gamma Distributed at 5% Significance Le	1	95% Chebyshev(Mean, Sd) UCL	0.23
		97.5% Chebyshev(Mean, Sd) UCL	0.37
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.50
95% Approximate Gamma UCL	0.197	So to Street, Hour, Guy Gol	
95% Adjusted Gamma UCL	0.197		···
TOTAL MINISTER MANAGEMENT OF THE PROPERTY OF T			
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.378
Potential UCL to Use		Use 97.5% Chebysnev (Mean, Sd) UCL	0.3

	General Stat	istics	
Number of Valid Samples	166	Number of Unique Samples	86
Raw Statistics		Les transformed Statistics	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Ninimum Minimum	0.0015	Log-transformed Statistics Minimum of Log Data	-6.47
Maximum	4.6	Maximum of Log Data	1.52
Mean	0.465	Mean of log Data	-1,11
Median	0.403	SD of log Data	1.00
SD	0.415	SD Of log Data	1.00
Coefficient of Variation	0.903 5.93		
Skewness	5.93		, p 10-10 10-10-10-10-10-10-10-10-10-10-10-10-10-1
F	Relevant UCL S	Statistics	
Normal Distribution Test	And 1-12 contract to the Copy of the Copy	Lognormal Distribution Test	
Lilliefors Test Statistic	0.153	Lilliefors Test Statistic	0.18
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.06
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	C. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
95% Student's-t UCL	0.519	95% H-UCL	0.64
95% UCLs (Adjusted for Skewness)	L	95% Chebyshev (MVUE) UCL	0.76
95% Adjusted-CLT UCL	0.534	97.5% Chebyshev (MVUE) UCL	0.86
95% Modified-t UCL	0.521	99% Chebyshev (MVUE) UCL	1.04
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.57	Data do not follow a Discernable Distribution (0.05)	J
Theta Star	0.296		-
nu star	521.2		
Approximate Chi Square Value (.05)	469.3	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	0.5
Adjusted Chi Square Value	468.9	95% Jackknife UCL	0.5
		95% Standard Bootstrap UCL	0.5
Anderson-Darling Test Statistic	2.638	95% Bootstrap-t UCL	0.5
Anderson-Darling 5% Critical Value	0.77	95% Hall's Bootstrap UCL	0.7
Kolmogorov-Smirnov Test Statistic	0.0955	95% Percentile Bootstrap UCL	0.5
Kolmogorov-Smirnov 5% Critical Value	0.0737	95% BCA Bootstrap UCL	0.5
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.6
		97.5% Chebyshev(Mean, Sd) UCL	0.6
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.7
95% Approximate Gamma UCL	0.516		
95% Adjusted Gamma UCL	0.517		
			0.60

	e e v		
Number of Valid Samples	166	Number of Unique Samples	69
Raw Statistics		Log-transformed Statistics	
Minimum	0.0049	Minimum of Log Data	-5.318
Maximum	1.02	Maximum of Log Data	0.019
Mean	0.0219	Mean of log Data	-4.728
Median	0.0057	SD of log Data	0.949
SD	0.085		0.010
Coefficient of Variation	3.873		
Skewness	10.41		
	Relevant UC		
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.421	Lilliefors Test Statistic	0.405
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.068
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	Innobational Contract of
Assuming Normal Distribution		Assuming Lognormal Distribution	d quantitative filip and manager out refigered by the
95% Student's-t UCL	0.0328	95% H-UCL	0.016
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.019
95% Adjusted-CLT UCL	0.0385	97.5% Chebyshev (MVUE) UCL	0.021
95% Modified-t UCL	0.0337	99% Chebyshev (MVUE) UCL	0.025
Gamma Distribution Test		Data Distribution	/*************************************
k star (bias corrected)	0.662	Data do not follow a Discernable Distribution (0.05)
Theta Star	0.0332	,	
nu star	219.7		
Approximate Chi Square Value (.05)	186.4	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	0.032
Adjusted Chi Square Value	186.1	95% Jackknife UCL	0.032
		95% Standard Bootstrap UCL	0.032
Anderson-Darling Test Statistic	33.77	95% Bootstrap-t UCL	0.064
Anderson-Darling 5% Critical Value	0.804	95% Hail's Bootstrap UCL	0.078
Kolmogorov-Smirnov Test Statistic	0.43	95% Percentile Bootstrap UCL	0.034
Kolmogorov-Smirnov 5% Critical Value	0.0757	95% BCA Bootstrap UCL	0.041
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.050
		97.5% Chebyshev(Mean, Sd) UCL	0.063
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.087
95% Approximate Gamma UCL	0.0259		***************************************
95% Adjusted Gamma UCL	0.0259		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.050
i dental del toda		Use 35 % Chebyshev (Weah, 34) UCL	0.000
esult or 1/2 SDL (boron)			
Nicosta and Classical Control	General S		1 1 1
Number of Valid Samples	166	Number of Unique Samples	114
Raw Statistics		Log-transformed Statistics	14111 proproprio ministrutor y s
Minimum	0.475	Minimum of Log Data	-0.744
Maximum	54.4	Maximum of Log Data	3.996

Mean	4.811	Mean of log Data	0.742
Median	1.475	SD of log Data	1.361
SD	6.242		
Coefficient of Variation	1.298		
Skewness	3.515		nadigaliya garaga gara ya gani ka siin ahaan
	Relevant UC	CL Statistics	alistica belleviario que le locale locale la constante de la constante de la constante de la constante de la c
Normal Distribution Test		Lognormal Distribution Test	ad an Papara ad a ad ghaigh Ba Pada Philips i 1889a i
Lilliefors Test Statistic	0.244	Lilliefors Test Statistic	0.253
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.068
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	5.612	95% H-UCL	6.904
95% UCLs (Adjusted for Skewness)	0.012	95% Chebyshev (MVUE) UCL	8.515
95% Adjusted for Skewness) 95% Adjusted-CLT UCL	5.749	97.5% Chebyshev (MVUE) UCL	9.929
95% Adjusted-CLT OCL 95% Modified-t UCL	5.749	99% Chebyshev (MVUE) UCL	9.929 12.71
Gamma Distribution Test	0740	Data Distribution	
k star (bias corrected)	0.716	Data do not follow a Discernable Distribution (0.05)
Theta Star	6.716		
nu star	237.8		
Approximate Chi Square Value (.05)	203.1	Nonparametric Statistics	
Adjusted Level of Significance	0.0486		5.608
Adjusted Chi Square Value	202.9	95% Jackknife UCL	5.612
		95% Standard Bootstrap UCL	5.63
Anderson-Darling Test Statistic	11.51	95% Bootstrap-t UCL	5.814
Anderson-Darling 5% Critical Value	0.798	95% Hall's Bootstrap UCL	5.949
Kolmogorov-Smirnov Test Statistic	0.252	95% Percentile Bootstrap UCL	5.594
Kolmogorov-Smirnov 5% Critical Value	0.0754		5.756
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	6.923
		97.5% Chebyshev(Mean, Sd) UCL	7.837
Assuming Gamma Distribution	g : lin = 1 == 15 + 112 1 == 1 == 1 == 1	99% Chebyshev(Mean, Sd) UCL	9.632
95% Approximate Gamma UCL	5.633		
95% Adjusted Gamma UCL	5.64		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	7.837
Result or 1/2 SDL (butyl benzyl phthalate)			agus que april es son que en em de de constitue de la constitu
	General S	Statistics	art indexes and a feet of the Consecutive State State and
Number of Valid Samples	166	Number of Unique Samples	69
Raw Statistics		Log-transformed Statistics	
Minimum	0.0054	Minimum of Log Data	-5.212
Maximum	0.617	Maximum of Log Data	-0.483
Mean	0.0203	Mean of log Data	-4.633
Median	0.0064	SD of log Data	0.906
SD	0.0558		
Coefficient of Variation	2.752		The second second section of the second
Skewness	8.42		THE PERSON NAMED AND PARTY OF

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F	Relevant UCL S	Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.395	Lilliefors Test Statistic	0.39
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.06
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0274	95% H-UCL	0.01
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.01
95% Adjusted-CLT UCL	0.0304	97.5% Chebyshev (MVUE) UCL	0.02
95% Modified-t UCL	0.0279	99% Chebyshev (MVUE) UCL	0.02
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.797	Data do not follow a Discernable Distribution (0.05	\ \
Theta Star	0.737	Data do not follow a Discernable Distribution (0.00)	/
nu star	264.5		the requirement management
Approximate Chi Square Value (.05)	204.3	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	0.02
Adjusted Level of Significance Adjusted Chi Square Value	227.5	95% Jackknife UCL	0.02
Adjusted Cili Squale Value	227.5	95% Standard Bootstrap UCL	0.02
Anderson-Darling Test Statistic	32.49	- [0.02
_		95% Bootstrap-t UCL	0.03
Anderson-Darling 5% Critical Value	0.793	95% Hall's Bootstrap UCL	
Kolmogorov-Smirnov Test Statistic	0.418	95% Percentile Bootstrap UCL	0.02
Kolmogorov-Smirnov 5% Critical Value	0.0751	95% BCA Bootstrap UCL	0.03
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.03
		97.5% Chebyshev(Mean, Sd) UCL	0.04
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.06
95% Approximate Gamma UCL	0.0235		
95% Adjusted Gamma UCL	0.0236		magraph of strong or transport
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.03
sult or 1/2 SDL (cadmium)			r gar ye ryataan ca ta faraan
	General Stat	istics	
Number of Valid Samples	166	Number of Unique Samples	76
Raw Statistics		Log-transformed Statistics	redischausendigenten
Minimum	0.0085	Minimum of Log Data	-4.768
Maximum	9.71	Maximum of Log Data	2.27
Mean	0.335	Mean of log Data	-2.576
Median	0.335	SD of log Data	1.88
wiedran SD	0.11	SU OI IOU DATA	1.00
Coefficient of Variation	2.561		
Skewness	8.46		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Relevant UCL S	Statistics	
Normal Distribution Test	Cotan OOL 3	Lognormal Distribution Test	
Lilliefors Test Statistic	0.352	Lilliefors Test Statistic	0.22
Lilliefors Critical Value			0.22
Littlefors Critical Value	0.0688	Lilliefors Critical Value	0.00

Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.446	95% H-UCL	0.709
95% UCLs (Adjusted for Skewness)	0.440	95% Chebyshev (MVUE) UCL	0.703
95% OCLS (Adjusted for Skewness) 95% Adjusted-CLT UCL	0.492	97.5% Chebyshev (MVUE) UCL	1.077
			1.077
95% Modified-t UCL	0.453	99% Chebyshev (MVUE) UCL	1.454
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.433	Data do not follow a Discernable Distribution (0.05)
Theta Star	0.773		~ 1.4.165
nu star	143.9		
Approximate Chi Square Value (.05)	117.2	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	0.445
Adjusted Chi Square Value	117	95% Jackknife UCL	0.446
		95% Standard Bootstrap UCL	0.446
Anderson-Darling Test Statistic	8.005	95% Bootstrap-t UCL	0.55
Anderson-Darling 5% Critical Value	0.835	95% Hall's Bootstrap UCL	0.893
Kolmogorov-Smirnov Test Statistic	0.204	95% Percentile Bootstrap UCL	0.452
Kolmogorov-Smirnov 5% Critical Value	0.0772	95% BCA Bootstrap UCL	0.432
Data not Gamma Distributed at 5% Significance Lev		95% Chebyshev(Mean, Sd) UCL	0.626
Data not Gamma Distributed at 3% Significance Le	/ei	97.5% Chebyshev(Mean, Sd) UCL	0.020
According Comment Birkits die			
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.998
95% Approximate Gamma UCL	0.412		
95% Adjusted Gamma UCL	0.412		and the second s
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.751
Result or 1/2 SDL (carbazole)			
	General St	atistics	arangan kangan dan dan dan dan dan dan dan dan dan d
Number of Valid Samples	166	Number of Unique Samples	112
Raw Statistics		Log-transformed Statistics	hanners and washeld to made of differ
Minimum	0.0043	Minimum of Log Data	-5.444
	1.54	Maximum of Log Data	
		iviaxilliulii di Log Data (0.432
Mean	0.0459		
Mean		Mean of log Data	-4.438
Mean Median	0.0052		-4.438
Mean Median SD	0.0052 0.148	Mean of log Data	-4.438
Mean Median	0.0052	Mean of log Data	-4.438
Mean Median SD Coefficient of Variation Skewness	0.0052 0.148 3.227 7.508	Mean of log Data SD of log Data	-4.438
Mean Median SD Coefficient of Variation Skewness	0.0052 0.148 3.227	Mean of log Data SD of log Data Statistics	-4.438
Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test	0.0052 0.148 3.227 7.508	Mean of log Data SD of log Data SD statistics Lognormal Distribution Test	-4.438 1.335
Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic	0.0052 0.148 3.227 7.508 Relevant UCL 0.389	Mean of log Data SD of log Data Statistics Lognormal Distribution Test Lilliefors Test Statistic	-4.438 1.335 0.328
Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value	0.0052 0.148 3.227 7.508	Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value	-4.438 1.335 0.328
Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic	0.0052 0.148 3.227 7.508 Relevant UCL 0.389	Mean of log Data SD of log Data Statistics Lognormal Distribution Test Lilliefors Test Statistic	-4.438 1.335 0.328
Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value	0.0052 0.148 3.227 7.508 Relevant UCL 0.389	Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value	-4.438 1.335 0.328
Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level	0.0052 0.148 3.227 7.508 Relevant UCL 0.389	Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level	

		popularina acceptante de la compansa	ergalii.
95% Adjusted-CLT UCL	0.0719	97.5% Chebyshev (MVUE) UCL	0.053
95% Modified-t UCL	0.066	99% Chebyshev (MVUE) UCL	0.068
Gamma Distribution Test		Date Distribution	
	0.460	Data Distribution	
k star (bias corrected) Theta Star	0.468 0.0981	Data do not follow a Discernable Distribution (0.05)	
nu star	155.3		
Approximate Chi Square Value (.05)	127.5	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	0.064
Adjusted Chi Square Value	127.3	95% Jackknife UCL	0.064
		95% Standard Bootstrap UCL	0.065
Anderson-Darling Test Statistic	24.68	95% Bootstrap-t UCL	0.083
Anderson-Darling 5% Critical Value	0.827	95% Hall's Bootstrap UCL	0.137
Kolmogorov-Smirnov Test Statistic	0.334	95% Percentile Bootstrap UCL	0.065
Kolmogorov-Smirnov 5% Critical Value	0.0769	95% BCA Bootstrap UCL	0.076
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.096
		97.5% Chebyshev(Mean, Sd) UCL	0.118
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.16
95% Approximate Gamma UCL	0.0559		
95% Adjusted Gamma UCL	0.056		
			0.440
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.118
	General St	tatistics	
It or 1/2 SDL (carbon disulfide) Number of Valid Samples	General St	tatistics Number of Unique Samples	52
	£1		52
Number of Valid Samples Raw Statistics	£1	Number of Unique Samples	-10.6
Number of Valid Samples Raw Statistics	83	Number of Unique Samples Log-transformed Statistics	
Number of Valid Samples Raw Statistics Minimum	2.5000E-5	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	-10.6
Number of Valid Samples Raw Statistics Minimum Maximum Mean	2.5000E-5 0.028	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-10.6 -3.576 -8.944
Number of Valid Samples Raw Statistics Minimum Maximum Mean	2.5000E-5 0.028 0.0012	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-10.6 -3.576 -8.944
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	2.5000E-5 0.028 0.0012 5.1000E-5	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-10.6 -3.576 -8.944
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	2.5000E-5 0.028 0.0012 5.1000E-5 0.0039	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-10.6 -3.576 -8.944
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	2.5000E-5 0.028 0.0012 5.1000E-5 0.0039 3.144	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-10.6 -3.576 -8.944
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	2.5000E-5 0.028 0.0012 5.1000E-5 0.0039 3.144 5.355	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-10.6 -3.576
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	2.5000E-5 0.028 0.0012 5.1000E-5 0.0039 3.144 5.355	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-10.6 -3.576 -8.944 1.844
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	2.5000E-5 0.028 0.0012 5.1000E-5 0.0039 3.144 5.355	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test	-10.6 -3.576 -8.944
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic	2.5000E-5 0.028 0.0012 5.1000E-5 0.0039 3.144 5.355	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Lilliefors Test Statistic	-10.6 -3.576 -8.944 1.844
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value	2.5000E-5 0.028 0.0012 5.1000E-5 0.0039 3.144 5.355	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value	-10.6 -3.576 -8.944 1.844
Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level	2.5000E-5 0.028 0.0012 5.1000E-5 0.0039 3.144 5.355	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level	-10.6 -3.576 -8.944 1.844 0.389 0.097
Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	83 2.5000E-5 0.028 0.0012 5.1000E-5 0.0039 3.144 5.355 Relevant UCL 0.387 0.0973	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	-10.6 -3.576 -8.944 1.844 0.389 0.097
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	83 2.5000E-5 0.028 0.0012 5.1000E-5 0.0039 3.144 5.355 Relevant UCL 0.387 0.0973	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level	-10.6 -3.576 -8.944 1.844 0.389 0.097
Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	2.5000E-5 0.028 0.0012 5.1000E-5 0.0039 3.144 5.355 Relevant UCL 0.387 0.0973	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-10.6 -3.576 -8.944 1.844
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL	2.5000E-5 0.028 0.0012 5.1000E-5 0.0039 3.144 5.355 Relevant UCL 0.387 0.0973	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	-10.6 -3.576 -8.944 1.844 0.389 0.097 0.001 0.001
Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	2.5000E-5 0.028 0.0012 5.1000E-5 0.0039 3.144 5.355 Relevant UCL 0.387 0.0973	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SLognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	-10.6 -3.576 -8.944 1.844 0.388 0.09 0.00 0.00 0.00

Theta Star	0.0042		
nu star	49.81		
Approximate Chi Square Value (.05)	34.6	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.0019
Adjusted Chi Square Value	34.38	95% Jackknife UCL	0.0019
	***************************************	95% Standard Bootstrap UCL	0.0019
Anderson-Darling Test Statistic	16.26	95% Bootstrap-t UCL	0.003
Anderson-Darling 5% Critical Value	0,865	95% Hall's Bootstrap UCL	0.0053
Kolmogorov-Smirnov Test Statistic	0.427	95% Percentile Bootstrap UCL	0.0020
Kolmogorov-Smirnov 5% Critical Value	0.106	95% BCA Bootstrap UCL	0.0023
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.003
		97.5% Chebyshev(Mean, Sd) UCL	0.004
Assuming Gamma Distribution	L	99% Chebyshev(Mean, Sd) UCL	0.0056
95% Approximate Gamma UCL	0.0018		
95% Adjusted Gamma UCL	0.0018		•
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.004
Result or 1/2 SDL (chromium)			
	General S	Statistics	<u> </u>
Number of Valid Samples	166	Number of Unique Samples	144
Raw Statistics		Log-transformed Statistics	in in a commentation of the comment
Minimum	2.03	Minimum of Log Data	0.708
Maximum	136	Maximum of Log Data	4.913
Mean	13.53	Mean of log Data	2.41
Median	10.55	SD of log Data	0.582
SD	12.49		
Coefficient of Variation	0.923		
. Skewness	6.346		
F	Relevant UC	CL Statistics	dikkalı resonanya bal dik kalışısı der son yer
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.215	Lilliefors Test Statistic	0.0792
Lilliefors Critical Value	0.0688	1	0.0688
Data not Normal at 5% Significance Level	*PACIFICACIONAL CALLACTER CALLACTER CALLACTER CALLACTER CALLACTER CALLACTER CALLACTER CALLACTER CALLACTER CALL	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	15.13	95% H-UCL	14.34
95% UCLs (Adjusted for Skewness)	Seen the whole to be the refuge at we consider	95% Chebyshev (MVUE) UCL	15.96
95% Adjusted-CLT UCL	15.63	97.5% Chebyshev (MVUE) UCL	17.17
95% Modified-t UCL	15.21	99% Chebyshev (MVUE) UCL	19.54
Gamma Distribution Test	garpinian (garring pining pana)	Data Distribution	ar ole Mandage (a.e. e Chron de l'Indian de Liver de
k star (bias corrected)	2.677	Data do not follow a Discernable Distribution (0.05)
Theta Star	5.053		
nu star	888.9		***************************************
Approximate Chi Square Value (.05)	820.7	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	15.12
Adjusted Chi Square Value	820.1	95% Jackknife UCL	15.13

	DESCRIPTION AND DESCRIPTION AND ADDRESS OF THE PROPERTY OF THE	15 10
2 702	·	15.12
	·	16.06
	·	22.32 15.26
		15.26
	-	17.75
vei		17.75
		23.17
14 65	33 % Chebyshev(Mean, Su) UCL	20.17
14.00		
	Use 95% Chebyshev (Mean, Sd) UCL	17.75
General S	Statistics	***************************************
166	Number of Unique Samples	151
***************************************	Log-transformed Statistics	
0.0042	Minimum of Log Data	-5.47
4.87	Maximum of Log Data	1.583
0.327	Mean of log Data	-3.244
0.0291	SD of log Data	2.065
0.79		
2.415		. et alexandria de la altrafació presentado de la constitue de la constitue de la constitue de la constitue de
3.488		a the contrated for the delicates the distance pre, when purity the
Relevant UC	L Statistics	t terreption to a bir metter hyddingsbij objekt ob
***************************************	Lognormal Distribution Test	
0.347	Lilliefors Test Statistic	0.14
0.0688	Lilliefors Critical Value	0.0688
	Data not Lognormal at 5% Significance Level	
	Assuming Lognormal Distribution	1, and 1, 4, and 1, and
0.429	95% H-UCL	0.555
	95% Chebyshev (MVUE) UCL	0.683
0.446	97.5% Chebyshev (MVUE) UCL	0.841
0.432	99% Chebyshev (MVUE) UCL	1.153
***************************************		. Description of the second of
0.045		I
	рака постоном а Discernable Distribution (0.05	
		and the second second second second second
	Napparametria Ctetinin	AND SALARI STORES OF SAME AS ABOUT AS MALE STORES.
		0.428
	Waters we was taken to the construction to the contract for the contract f	0.428
UE.33		0.429
12.67		0.449
]	·	0.452
J.UUT 1		J. 702
0.207	95% Percentile Bootstrap UCL	0.438
	0.0042 4.87 0.327 0.0291 0.79 2.415 3.488 Relevant UC 0.347 0.0688 0.429 0.446 0.432 0.319 1.027 105.9 83.11 0.0486 82.93	0.761 95% Hall's Bootstrap UCL 0.112 95% Percentile Bootstrap UCL 0.073 95% BCA Bootstrap UCL 0.073 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL 14.65

Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.595
Date not defining Distributed at 5% digitilicance Le		97.5% Chebyshev(Mean, Sd) UCL	0.333
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.938
95% Approximate Gamma UCL	0.417	33% Onebysnev(Weart, 34) OOL	0.330
95% Adjusted Gamma UCL	0.417		
John Adjusted Carrilla Col	0.410		**************************************
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.938
			nrumanus (pare)
Result or 1/2 SDL (cobalt)			
	General S		
Number of Valid Samples	166	Number of Unique Samples	146
Raw Statistics	Holis of a black file of state of the disc.	Log-transformed Statistics	***************************************
Minimum	0.0125	Minimum of Log Data	-4.382
Maximum	16	Maximum of Log Data	2.773
Mean	4.144	Mean of log Data	1.255
Median	3.965	SD of log Data	0.754
SD	2.047		
Coefficient of Variation	0.494		
Skewness	1.346		
	Relevant UC	L Statistics	****
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.0667	Lilliefors Test Statistic	0.143
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.068
Data appear Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	4.407	95% H-UCL	5.234
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	5.989
95% Adjusted-CLT UCL	4.423	97.5% Chebyshev (MVUE) UCL	6.56
95% Modified-t UCL	4.41	99% Chebyshev (MVUE) UCL	7.703
Gamma Distribution Test		Data Distribution	was the second
k star (bias corrected)	3.105	Data appear Normal at 5% Significance Level	
Theta Star	1.335		
nu star	1031		
Approximate Chi Square Value (.05)	957.4	Nonparametric Statistics	4 402
Adjusted Level of Significance	0.0486	95% CLT UCL	4.406
Adjusted Chi Square Value	956.8	95% Jackknife UCL	4.407
A. Lucia De Partir de la companya de	0.643	95% Standard Bootstrap UCL	4.41
Anderson-Darling Test Statistic	2.317	95% Bootstrap-t UCL	4.422
Anderson-Darling 5% Critical Value	0.759	95% Hall's Bootstrap UCL	4.447
Kolmogorov-Smirnov Test Statistic	0.0839	·	4.392
Kolmogorov-Smirnov 5% Critical Value	0.0729	95% BCA Bootstrap UCL	4.432
Data not Gamma Distributed at 5% Significance Le	vei	95% Chebyshev(Mean, Sd) UCL	4.837
Assuming October Distriction		97.5% Chebyshev(Mean, Sd) UCL	5.137
Assuming Gamma Distribution	4.400	99% Chebyshev(Mean, Sd) UCL	5.725
95% Approximate Gamma UCL	4.462		
95% Adjusted Gamma UCL	4.465		

Potential UCL to Use		Use 95% Student's-t UCL	4.40
ult or 1/2 SDL (copper)			
	General Sta	istics	~# q= 1+111311.^&1
Number of Valid Samples	166	Number of Unique Samples	147
Raw Statistics	***************************************	Log-transformed Statistics	and the second of the second
Minimum	0.033	Minimum of Log Data	-3.41
Maximum	487	Maximum of Log Data	6.1
Mean	24.26	Mean of log Data	2.5
Median	11.85	SD of log Data	1,2
SD	46.76		
Coefficient of Variation	1.928		
Skewness	6.907		
	elevant UCL S	Noticia	#
Normal Distribution Test	elevant UCL 3	Lognormal Distribution Test	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Lilliefors Test Statistic	0.302	Lilliefors Test Statistic	0.1
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.0
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	30.26	95% H-UCL	32.2
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	39.1
95% Adjusted-CLT UCL	32.31	97.5% Chebyshev (MVUE) UCL	45.0
95% Modified-t UCL	30.58	99% Chebyshev (MVUE) UCL	56.5
33 % Hodina t GGL		oon chapater (invol.) ool	
Gamma Distribution Test		Data Distribution	***************************************
k star (bias corrected)	0.87	Data do not follow a Discernable Distribution (0.05))
Theta Star	27.89		
nu star	288.8		
Approximate Chi Square Value (.05)	250.4	Nonparametric Statistics	J
Adjusted Level of Significance	0.0486	95% CLT UCL	30.2
Adjusted Chi Square Value	250.1	95% Jackknife UCL	30.2
		95% Standard Bootstrap UCL	30.0
Anderson-Darling Test Statistic	7.347	95% Bootstrap-t UCL	34.3
Anderson-Darling 5% Critical Value	0.789	95% Hall's Bootstrap UCL	54.3
Kolmogorov-Smirnov Test Statistic	0.163	95% Percentile Bootstrap UCL	30.5
Kolmogorov-Smirnov 5% Critical Value	0.0749	95% BCA Bootstrap UCL	33.9
Data not Gamma Distributed at 5% Significance Lev	rel	95% Chebyshev(Mean, Sd) UCL	40.0
		97.5% Chebyshev(Mean, Sd) UCL	46.9
Assuming Gamma Distribution	***************************************	99% Chebyshev(Mean, Sd) UCL	60.3
95% Approximate Gamma UCL	27.97		
95% Adjusted Gamma UCL	28.01		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	46.9

Result or 1/2 SDL (cyclohexane)

The first over the second of the first over the second of	General S	Statistics	
Number of Valid Samples	83	Number of Unique Samples	74
Raw Statistics		Log-transformed Statistics	
	4.4350E-4	Minimum of Log Data	-7.72°
Maximum	21.7	Maximum of Log Data	3.07
Mean	0.266	Mean of log Data	-6.38
Median	0.200	SD of log Data	1.59
SD	2,381	OD OTTOG Pate	
Coefficient of Variation	8.952		
Skewness	9.11		ng glag glate hadigamay nd q to galactic
	Relevant UC	I Statistica	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.517	Lilliefors Test Statistic	0.26
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.09
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.701	95% H-UCL	0.0
95% UCLs (Adjusted for Skewness)	0.701	95% Chebyshev (MVUE) UCL	0.0
95% Adjusted-CLT UCL	0.975	97.5% Chebyshev (MVUE) UCL	0.0
95% Modified-t UCL	0.744	99% Chebyshev (MVUE) UCL	0.02
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.154	Data do not follow a Discernable Distribution (0.05))
Theta Star	1.724		
nu star	25.61	Name and Control	TOTAL CONTRACTOR SPECIAL SPECI
Approximate Chi Square Value (.05)	15.08	Nonparametric Statistics	0.69
Adjusted Chi Causas Value	0.0471	95% CLT UCL 95% Jackknife UCL	0.0
Adjusted Chi Square Value	14.94		
Andrews Dading Took Chalinkin	05.11	95% Standard Bootstrap UCL 95% Bootstrap-t UCL	0.69 98.46
Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value	25.11 0.956	95% Bootstrap UCL	48.5
Kolmogorov-Smirnov Test Statistic	0.938	95% Percentile Bootstrap UCL	0.78
Kolmogorov-Smirnov Fest Statistic Kolmogorov-Smirnov 5% Critical Value	0.433	95% BCA Bootstrap UCL	1.0
Data not Gamma Distributed at 5% Significance Lev	j	95% Chebyshev(Mean, Sd) UCL	1.40
Data not Gamina Distributed at 5% Significance Lev	YCI	97.5% Chebyshev(Mean, Sd) UCL	1.89
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	2.86
95% Approximate Gamma UCL	0.452	oo io onosysteviwean, our ooc	
95% Adjusted Gamma UCL.	0.452		**************************************
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	1.89
It or 1/2 SDL (dibenz(a,h)anthracene)			
	General S	tatistics	and the same of th
	166	Number of Unique Samples	130

Minimum	0.0042	Minimum of Log Data	-5.466
Maximum	1.64	Maximum of Log Data	0.495
Mean	0.113	Mean of log Data	-3.906
Median	0.0052		1.817
SD	0.252		
Coefficient of Variation	2.229		
Skewness	3.609		
J. C. W. I C. S. C. W. I	3.009		
Normal Distribution Test	Relevant U(CL Statistics Lognormal Distribution Test	
Lilliefors Test Statistic		Lilliefors Test Statistic	0.325
	0.333		
Lilliefors Critical Value	0.0688	I I	0.068
Data not Normal at 5% Significance Level	a de la la garage de la	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.146	95% H-UCL	0.159
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.199
95% Adjusted-CLT UCL	0.151	. 97.5% Chebyshev (MVUE) UCL	0.242
95% Modified-t UCL	0.147	99% Chebyshev (MVUE) UCL	0.324
Gamma Distribution Test	ud maker present a condimina	Data Distribution	
k star (bias corrected)	0.38	Data do not follow a Discernable Distribution (0.05)
Theta Star	0.298		***************************************
nu star	126.3		
Approximate Chi Square Value (.05)	101.4	Nonparametric Statistics	
Adjusted Level of Significance	0.0486		0.145
Adjusted Chi Square Value	101.2	95% Jackknife UCL	0.146
Aujusted Citi Square value	101.2	95% Standard Bootstrap UCL	0.146
Andrew Darling Total Obligation	10.00	·	
Anderson-Darling Test Statistic	18.02	95% Bootstrap-t UCL	0.153
Anderson-Darling 5% Critical Value	0.848	95% Hall's Bootstrap UCL	0.151
Kolmogorov-Smirnov Test Statistic	0.329	95% Percentile Bootstrap UCL	0.148
Kolmogorov-Smirnov 5% Critical Value	0.0778		0.15
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.199
		97.5% Chebyshev(Mean, Sd) UCL	0.236
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.308
95% Approximate Gamma UCL	0.141		
95% Adjusted Gamma UCL	0.141		
Potential UCL to Use	1100-0111 - 1011-0111 - 1011-011-011-011	Use 97.5% Chebyshev (Mean, Sd) UCL	0.236
Result or 1/2 SDL (dibenzofuran)			er for english for the fine of the state of
	General	Statistics	
Number of Valid Samples	166	Number of Unique Samples	77
Raw Statistics		Log-transformed Statistics	an to the state of
Minimum	0.0062	_	-5.083
Maximum	0.821	Maximum of Log Data	-0.197
Mean	0.0309	_	-4.369
Median	0.0073		1.051
SD		_	1.00.1
שט	0.0826		

	The state of the s		18.73 (75)
Coefficient of Variation	2.671		
Skewness	7.081		n har dan dag 1 n da ang ang ang ang ang ang ang ang ang an
Chornes	7.001		
F	Relevant UC	L Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.382	Lilliefors Test Statistic	0.383
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.068
Data not Normal at 5% Significance Level	<u> </u>	Data not Lognormal at 5% Significance Level	Anna branca dominado
Assuming Normal Distribution	***************************************	Assuming Lognormal Distribution	***************************************
95% Student's-t UCL	0.0415	95% H-UCL	0.026
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.031
95% Adjusted-CLT UCL	0.0452	97.5% Chebyshev (MVUE) UCL	0.035
95% Modified-t UCL	0.0421	99% Chebyshev (MVUE) UCL	0.043
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.672	Data do not follow a Discernable Distribution (0.05))
Theta Star	0.046		
nu star	223.1		
Approximate Chi Square Value (.05)	189.5	Nonparametric Statistics	0.04
Adjusted Level of Significance	0.0486	95% CLT UCL	0.04
Adjusted Chi Square Value	189.2	95% Jackknife UCL	0.04
Anderson Devling Test Statistic	29.15	95% Standard Bootstrap UCL	0.04
Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value	0,803	95% Bootstrap-t UCL 95% Hall's Bootstrap UCL	0.03
Kolmogorov-Smirnov Test Statistic	0.402	95% Percentile Bootstrap UCL	0.042
Kolmogorov-Smirnov 5% Critical Value	0.402	95% BCA Bootstrap UCL	0.042
Data not Gamma Distributed at 5% Significance Le]	95% Chebyshev(Mean, Sd) UCL	0.040
Data not Ganina Distributed at 3% Significance Le	l l	97.5% Chebyshev(Mean, Sd) UCL	0.030
Assuming Gamma Distribution	<u> </u>	99% Chebyshev(Mean, Sd) UCL	0.094
95% Approximate Gamma UCL	0,0364	oo a diabysio (ween, day oo c	·····
95% Adjusted Gamma UCL	0.0364		
oo oo aa a	0.0001		************************
Potential UCL to Use	Ì	Use 97.5% Chebyshev (Mean, Sd) UCL	0.070
esult or 1/2 SDL (dieldrin)			
	General S	statistics	
Number of Valid Samples	166	Number of Unique Samples	96
Raw Statistics		Log-transformed Statistics	and the state of t
Minimum	7.0000E-5	Minimum of Log Data	-9.567
Maximum	0.0205	Maximum of Log Data	-3.887
Mean	9.0075E-4	Mean of log Data	-8.536
Median	8.5500E-5	SD of log Data	1.43
SD	0.0025		
Coefficient of Variation	2.865		the of Pennishan State of the Pennish State
Skewness	5.111		
/	Relevant UC	L Statistics	oder, proceeding of the language of the langua
Normal Distribution Test	T	Lognormal Distribution Test	

Lilliefors Test Statistic	0.374	Lilliefors Test Statistic	0.346
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.068
Data not Normal at 5% Significance Level	0.0000	Data not Lognormal at 5% Significance Level	0.000
			· · · · · · · · · · · · · · · · · · ·
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0012	95% H-UCL	7.2952E-
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	9.0453E-
95% Adjusted-CLT UCL	0.0013	97.5% Chebyshev (MVUE) UCL	0.00
95% Modified-t UCL	0.0012	99% Chebyshev (MVUE) UCL	0.00
Gamma Distribution Test		Data Distribution	l of the state of
k star (bias corrected)	0.424	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.0021		
nu star	140.6		
Approximate Chi Square Value (.05)	114.2	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	0.00
Adjusted Chi Square Value	114	95% Jackknife UCL	0.00
Adjusted Cril Square Value	114		
		95% Standard Bootstrap UCL	0.00
Anderson-Darling Test Statistic	27.17	95% Bootstrap-t UCL	0.00
Anderson-Darling 5% Critical Value	0.838	95% Hall's Bootstrap UCL	0.00
Kolmogorov-Smirnov Test Statistic	0.361	95% Percentile Bootstrap UCL	0.00
Kolmogorov-Smirnov 5% Critical Value	0.0773	95% BCA Bootstrap UCL	0.00
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.00
		97.5% Chebyshev(Mean, Sd) UCL	0.00
Assuming Gamma Distribution	Converse non-resemble sound	99% Chebyshev(Mean, Sd) UCL	0.00
95% Approximate Gamma UCL	0.0011		gan of the the than
95% Adjusted Gamma UCL	0.0011		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.002
Result or 1/2 SDL (di-n-butyl phthalate)			
Number of Valid Samples	General S	Statistics Number of Unique Samples	89
Raw Statistics		Log-transformed Statistics	
Minimum	0.0126	Minimum of Log Data	-4.378
Maximum	0.753	Maximum of Log Data	-0.284
Mean	0.0391	Mean of log Data	-3.85
Median	0.0146	SD of log Data	0.85
SD	0.0785		
Coefficient of Variation	2.007		
Skewness	5.86		
F	Relevant UC	L Statistics	
Normal Distribution Test	1	Lognormal Distribution Test	
Lilliefors Test Statistic	0.405	Lilliefors Test Statistic	0.39
Lilliefors Critical Value		Lilliefors Critical Value	0.06
Data not Normal at 5% Significance Level	0.0688	Data not Lognormal at 5% Significance Level	0.00
Assuming Normal Distribution		Assuming Lognormal Distribution	

95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.0492	95% H-UCL	0.0352
	0.0492	95% Chebyshev (MVUE) UCL	0.0302
95% Adjusted-CLT UCL	0.0521	97.5% Chebyshev (MVUE) UCL	0.0453
95% Modified-t UCL	0.0497	99% Chebyshev (MVUE) UCL	0.054
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.941	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.0416		
nu sta	312.3		
Approximate Chi Square Value (.05)	272.4	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	0.049
Adjusted Chi Square Value	272.1	95% Jackknife UCL	0.0492
		95% Standard Bootstrap UCL	0.049
Anderson-Darling Test Statistic	34.67	95% Bootstrap-t UCL	0.054
Anderson-Darling 5% Critical Value	0.786	95% Hall's Bootstrap UCL	0.061
Kolmogorov-Smirnov Test Statistic	0.428	95% Percentile Bootstrap UCL	. 0.049
Kolmogorov-Smirnov 5% Critical Value	0.0747	95% BCA Bootstrap UCL	0.052
Data not Gamma Distributed at 5% Significance Lo	evel	95% Chebyshev(Mean, Sd) UCL	0.065
		97.5% Chebyshev(Mean, Sd) UCL	0.077
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.099
95% Approximate Gamma UCL	0.0448		
95% Adjusted Gamma UCL	0.0449		en eren propriete de l'annuelle de l'annuell
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.065
t or 1/2 SDL (endosulfan sulfate)			
	General Sta		
t or 1/2 SDL (endosulfan sulfate) Number of Valid Samples		atistics Number of Unique Samples	. 105
			. 105
Number of Valid Samples Raw Statistics		Number of Unique Samples	105
Number of Valid Samples Raw Statistics	166 1.3250E-4	Number of Unique Samples Log-transformed Statistics	
Number of Valid Samples Raw Statistics Minimum	1.3250E-4 0.0713	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	-8.929
Number of Valid Samples Raw Statistics Minimum Maximum	1.3250E-4 0.0713 0.0013	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-8.929 -2.641 -8.164
Number of Valid Samples Raw Statistics Minimum Maximum Mear	1.3250E-4 0.0713 0.0013 1.5825E-4	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-8.929 -2.641
Number of Valid Samples Raw Statistics Minimum Maximum Mear Mediar	1.3250E-4 0.0713 0.0013 1.5825E-4	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-8.929 -2.641 -8.164
Number of Valid Samples Raw Statistics Minimum Maximum Mear Mediar	1.3250E-4 0.0713 0.0013 1.5825E-4 0 0.0061 4.659	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-8.929 -2.641 -8.164
Number of Valid Samples Raw Statistics Minimum Maximum Mear Mediar Scoefficient of Variation Skewness	1.3250E-4 0.0713 0.0013 1.5825E-4 0 0.0061 4.659 9.667	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-8.929 -2.641 -8.164
Number of Valid Samples Raw Statistics Minimum Maximum Mear Mediar Scoefficient of Variation Skewness	1.3250E-4 0.0713 0.0013 1.5825E-4 0 0.0061 4.659	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-8.929 -2.641 -8.164
Number of Valid Samples Raw Statistics Minimum Maximum Mear Mediar Sc Coefficient of Variation Skewness	1.3250E-4 0.0713 0.0013 1.5825E-4 0.0061 4.659 9.667	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-8.929 -2.641 -8.164 1.216
Number of Valid Samples Raw Statistics Minimum Maximum Mear Mediar Sc Coefficient of Variation Skewness	1.3250E-4 0.0713 0.0013 1.5825E-4 0 0.0061 4.659 9.667 Relevant UCL	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SLognormal Distribution Test	-8.929 -2.641 -8.164 1.216
Number of Valid Samples Raw Statistics Minimum Maximum Mear Mediar Sc Coefficient of Variation Skewness Normal Distribution Test Lilliefors Test Statistic	1.3250E-4 0.0713 0.0013 1.5825E-4 0 0.0061 4.659 9.667 Relevant UCL	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Lilliefors Test Statistic	-8.929 -2.641 -8.164 1.216
Number of Valid Samples Raw Statistics Minimum Maximum Mear Mediar Sc Coefficient of Variation Skewness Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level	1.3250E-4 0.0713 0.0013 1.5825E-4 0 0.0061 4.659 9.667 Relevant UCL	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SLognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level	-8.929 -2.641 -8.164 1.216
Number of Valid Samples Raw Statistics Minimum Maximum Mediar SE Coefficient of Variation Skewness Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	1.3250E-4 0.0713 0.0013 1.5825E-4 0 0.0061 4.659 9.667 Relevant UCL 0.423 0.0688	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SLatistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution	-8.929 -2.641 -8.164 1.216 0.372 0.0688
Number of Valid Samples Raw Statistics Minimum Maximum Mear Mediar SE Coefficient of Variation Skewness Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	1.3250E-4 0.0713 0.0013 1.5825E-4 0 0.0061 4.659 9.667 Relevant UCL	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SLognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	-8.929 -2.641 -8.164 1.216 0.372 0.0688
Number of Valid Samples Raw Statistics Minimum Maximum Mediar SE Coefficient of Variation Skewness Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	1.3250E-4 0.0713 0.0013 1.5825E-4 0 0.0061 4.659 9.667 Relevant UCL 0.423 0.0688	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SLatistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution	-8.929 -2.641 -8.164 1.216 0.372 0.0688

Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.422	Data do not follow a Discernable Distribution (0.05))
Theta Star	0.0031		-
nu star	140	тан месалы масанынынын алышка месанын өсө жайын байын байын жайын месанын месанын месанын месанын месанын месан	
Approximate Chi Square Value (.05)	113.7	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	0.002
Adjusted Chi Square Value	113.5	95% Jackknife UCL	0.002
		95% Standard Bootstrap UCL	0.002
Anderson-Darling Test Statistic	34.91	95% Bootstrap-t UCL	0.0036
Anderson-Darling 5% Critical Value	0.838	95% Hall's Bootstrap UCL	0.0048
Kolmogorov-Smirnov Test Statistic	0.398	95% Percentile Bootstrap UCL	0.002
Kolmogorov-Smirnov 5% Critical Value	0.0774	95% BCA Bootstrap UCL	0.002
Data not Gamma Distributed at 5% Significance Lev	vel	95% Chebyshev(Mean, Sd) UCL	0.003
		97.5% Chebyshev(Mean, Sd) UCL	0.004
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.006
95% Approximate Gamma UCL	0.0016		***************************************
95% Adjusted Gamma UCL	0.0016		and and the second seco
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.004
sult or 1/2 SDL (endrin aldehyde)			(
	General S	tatistics	ar y taariseleentsideneks liken
Number of Valid Samples	166	Number of Unique Samples	117
Raw Statistics	N. Marifed of data to agree 1	Log-transformed Statistics	
Minimum	1.6800E-4	Minimum of Log Data	-8.692
Maximum	0.0738	Maximum of Log Data	-2.606
Mean	0.0019	Mean of log Data	-7.839
Median	2.0050E-4	SD of log Data	1.344
SD	0.0073		
Coefficient of Variation	3.692		
Skewness	7.123		
	Relevant UCL		
Normal Distribution Test		Lognormal Distribution Test	A
Lilliefors Test Statistic	0.402	Lilliefors Test Statistic	0.383
Lilliefors Critical Value Data not Normal at 5% Significance Level	0.0688	Lilliefors Critical Value Data not Lognormal at 5% Significance Level	0.068
Data not Normal at 5% Significance Level	,	Data not Lognormal at 5% Significance Level	h for 150 of 250 to the first of 250 or 100
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0029	95% H-UCL	0.001
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.001
95% Adjusted-CLT UCL	0.0032	97.5% Chebyshev (MVUE) UCL	0.001
95% Modified-t UCL	0.0029	99% Chebyshev (MVUE) UCL	0.002
Gamma Distribution Test		Data Distribution	
	0.402)
	į.	24 40 10t 10tion a prosentation plantation (0.00)	<i></i>
Thata Stari	[][][]		
Theta Star	0.0049 133.4		\$0000000000000000000000000000000000000
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected)	0.0032 0.0029 0.402	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	

Adjusted Level of Significance	0.0486	95% CLT UCL	0.0029
Adjusted Chi Square Value	107.5	95% Jackknife UCL	0.0029
Adjusted offi oqualication value.	107.0	95% Standard Bootstrap UCL	0.0029
Anderson-Darling Test Statistic	33.76	95% Bootstrap-t UCL	0.0036
Anderson-Darling 5% Critical Value	0.843	95% Hall's Bootstrap UCL	0.0062
Kolmogorov-Smirnov Test Statistic	0.409	95% Percentile Bootstrap UCL	0.003
Kolmogorov-Smirnov 5% Critical Value	0.409		0.003
Data not Gamma Distributed at 5% Significance Le	1	95% Chebyshev(Mean, Sd) UCL	0.0032
Data not dannia Distributed at 5% dignificance Le	1	97.5% Chebyshev(Mean, Sd) UCL	0.005
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.003
_	0.0024		0.0070
95% Approximate Gamma UCL			
95% Adjusted Gamma UCL	0.0024		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.005
Result or 1/2 SDL (endrin ketone)			
	General	Statictice	
Number of Valid Samples	166	Number of Unique Samples	121
	L		Section 1991 Control of the section
Raw Statistics	g-100, 20100100	Log-transformed Statistics	
Minimum	2.1300E-4	Minimum of Log Data	-8.454
Maximum	0.0241	Maximum of Log Data	-3.726
Mean	0.0013	Mean of log Data	-7.664
Median	2.5250E-4	SD of log Data	1.185
SD	0.0032		
Coefficient of Variation	2.337		
Skewness	4.403		
1	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.362	Lilliefors Test Statistic	0.376
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.0688
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Named Distribution	A MATERIA SIA AMBANIA WARFAN (A AMBANIA SIA FINIS INTERNA SIA FINIS INTERNA SIA FINIS INTERNA SIA FINIS INTERNA	Assuming Lognormal Distribution	
Assuming Normal Distribution 95% Student's-t UCL	0.0017		0.001
	0.001/	95% H-UCL 95% Chebyshev (MVUE) UCL	0.001
95% UCLs (Adjusted for Skewness)	0.0040		!
95% Adjusted-CLT UCL	0.0018		0.001
95% Modified-t UCL	0.0018	99% Chebyshev (MVUE) UCL	0.002
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.571	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	0.0024		
nu star	189.7	N	
Approximate Chi Square Value (.05)	158.8	Nonparametric Statistics	0.001
Adjusted Level of Significance	0.0486		0.001
Adjusted Chi Square Value	158.6	95% Jackknife UCL	0.001
		95% Standard Bootstrap UCL	0.001
Anderson-Darling Test Statistic	30.37	95% Bootstrap-t UCL	0.001
Anderson-Darling 5% Critical Value	0.813	95% Hall's Bootstrap UCL	0.001

Control Manager Control Contro	d strangenty	Control Control Control and Control and Control and Control	
	0.000	AFOX Parasiti San Line	0.001
Kolmogorov-Smirnov Test Statistic	0.398	95% Percentile Bootstrap UCL	0.001
Kolmogorov-Smirnov 5% Critical Value	0.0762	95% BCA Bootstrap UCL	0.0018
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.0024
According Common Distribution		97.5% Chebyshev (Mean, Sd) UCL	0.0029
Assuming Gamma Distribution	0.0040	99% Chebyshev(Mean, Sd) UCL	0.003
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.0016 0.0016		
95% Adjusted Gamma OCL	0.0010		ononmunantrantrantrar
Potential UCL to Use	Marie e programa de como a constituente de con	Use 97.5% Chebyshev (Mean, Sd) UCL	0.002
Result or 1/2 SDL (ethylbenzene)			
	General S	Statistics	
Number of Valid Samples	83	Number of Unique Samples	74
Raw Statistics	~	Log-transformed Statistics	
etti etti tili talantai aitai talan muun muun muun kali uun manna aitai manna muun muun kali talan	7.7000E-5	Minimum of Log Data	-9.472
Maximum	0.105	Maximum of Log Data	-2.254
Mean	0.0038	Mean of log Data	-7.113
Median	0.0016	SD of log Data	1.759
SD	0.0129		
Coefficient of Variation	3.35		··spin(40)
Skewness	6.622		
F	Relevant UC		
Normal Distribution Test	Anne-minimum	Lognormal Distribution Test	- MARIANA
Lilliefors Test Statistic	0.392	Lilliefors Test Statistic	0.2
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.097
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	nameten nameten en e
Assuming Normal Distribution	the principles of the second s	Assuming Lognormal Distribution	(41,44-91, 49-1)
95% Student's-t UCL	0.0062	95% H-UCL	0.006
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.008
95% Adjusted-CLT UCL	0.0072	97.5% Chebyshev (MVUE) UCL	0.010
95% Modified-t UCL	0.0063	99% Chebyshev (MVUE) UCL	0.014
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.413	Data do not follow a Discernable Distribution (0.0)	<u></u>
Theta Star	0.0093	Data do not follow a Discentable Distribution (c.o.	"
nu star	68.55		
Approximate Chi Square Value (.05)	50.49	Nonparametric Statistics	Periodicina series periodes services
Adjusted Level of Significance	0.0471	95% CLT UCL	0.006
Adjusted Chi Square Value	50.22	95% Jackknife UCL	0.006
Aujusteu Oili Squale Value	30.22	95% Standard Bootstrap UCL	0.006
Anderson-Darling Test Statistic	5.613	95% Standard Bootstrap UCL 95% Bootstrap-t UCL	0.009
Anderson-Darling 1 est Statistic Anderson-Darling 5% Critical Value		95% Bootstrap UCL 95% Hall's Bootstrap UCL	0.009
_	0.838	-	0.008
Kolmogorov-Smirnov Test Statistic	0.196	95% Percentile Bootstrap UCL	0.000
Kolmogorov-Smirnov 5% Critical Value	0.105	95% BCA Bootstrap UCL	
Data not Gamma Distributed at 5% Significance Le	vei	95% Chebyshev(Mean, Sd) UCL	0.01
		97.5% Chebyshev(Mean, Sd) UCL	0.012
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.017

95% Approximate Gamma UCL	0.0052		
95% Adjusted Gamma UCL	0.0052		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.0127
Result or 1/2 SDL (fluoranthene)			
	General S	Statistics	
Number of Valid Samples	166	Number of Unique Samples	131
Raw Statistics		Log-transformed Statistics	F 004
Minimum	0.0053		-5.231
Maximum	. 14.2	Maximum of Log Data	2.653
Mean Median	0.594 0.0409	Mean of log Data	-2.889 2.179
Wedian SD	1.674	SD of log Data	2.179
Coefficient of Variation	2.82		
Skewness	5.022		
Normal Distribution Test	Relevant UC	Lognormal Distribution Test	
Lilliefors Test Statistic	0.363	Lilliefors Test Statistic	0.148
Lilliefors Critical Value	0.0688		0.0688
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.809	95% H-UCL	1.062
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.289
95% Adjusted-CLT UCL	0.861	97.5% Chebyshev (MVUE) UCL	1.6
95% Modified-t UCL	0.817	99% Chebyshev (MVUE) UCL	2.21
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.291	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	2.039		
nu star	96.67		
Approximate Chi Square Value (.05)	74.99	Nonparametric Statistics	***************************************
Adjusted Level of Significance	0.0486	95% CLT UCL	0.807
Adjusted Chi Square Value	74.82	. 95% Jackknife UCL	0.809
		95% Standard Bootstrap UCL	0.811
Anderson-Darling Test Statistic	13.04	95% Bootstrap-t UCL	0.906
Anderson-Darling 5% Critical Value	0.872	95% Hall's Bootstrap UCL	0.935
Kolmogorov-Smirnov Test Statistic	0.211	95% Percentile Bootstrap UCL	0.823
Kolmogorov-Smirnov 5% Critical Value	0.0788	•	0.89
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	1.16
		97.5% Chebyshev(Mean, Sd) UCL	1.405
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.886
95% Approximate Gamma UCL	0.765		***************************************
95% Adjusted Gamma UCL	0.767		ernanne ernannet saverblår teknandla
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	1.886

esult or 1/2 SDL (fluorene)	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM		
	General Sta	atistics	ALL THE REAL PROPERTY.
Number of Valid Samples	166	Number of Unique Samples	120
Raw Statistics		Log-transformed Statistics	une managem adapat
Minimum	0.0043	Minimum of Log Data	-5.449
Maximum	1.11	Maximum of Log Data	0.104
Mean	0.0442	Mean of log Data	-4.461
Median	0.0051	SD of log Data	1.337
SD	0.129		A PARTICIPATION OF THE PARTIES OF TH
Coefficient of Variation	2.919		
Skewness	5.759		
R	televant UCL	Statistics	20 11-1-1 -1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
Normal Distribution Test	***************************************	Lognormal Distribution Test	Market and Constitution with the second
Lilliefors Test Statistic	0.379	Lilliefors Test Statistic	0.34
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.068
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0607	95% H-UCL	0.036
95% UCLs (Adjusted for Skewness)	ettetajethske et hetersen, emensen og ee	95% Chebyshev (MVUE) UCL	0.044
95% Adjusted-CLT UCL	0.0654	97.5% Chebyshev (MVUE) UCL	0.052
95% Modified-t UCL	0.0615	99% Chebyshev (MVUE) UCL	0.066
Gamma Distribution Test	***************************************	Data Distribution	tiving and the second s
k star (bias corrected)	0.472	Data do not follow a Discernable Distribution (0.05)
Theta Star	0.0935		
nu star	156.9		***************************************
Approximate Chi Square Value (.05)	128.9	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	0.060
Adjusted Chi Square Value	128.7	95% Jackknife UCL	0.060
		95% Standard Bootstrap UCL	0.060
Anderson-Darling Test Statistic	25.32	95% Bootstrap-t UCL	0.069
Anderson-Darling 5% Critical Value	0.826	95% Hall's Bootstrap UCL	0.068
Kolmogorov-Smirnov Test Statistic	0.349	95% Percentile Bootstrap UCL	0.06
Kolmogorov-Smirnov 5% Critical Value	0.0768	95% BCA Bootstrap UCL	0.06
Data not Gamma Distributed at 5% Significance Lev	/el	95% Chebyshev(Mean, Sd) UCL	0.087
		97.5% Chebyshev(Mean, Sd) UCL	0.107
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.14
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.0538 0.0539		manistan e su sus billione el Mi

Potential UCL to Use	***************************************	Use 97.5% Chebyshev (Mean, Sd) UCL	0.10
	попадавированического попадавич		PRODUCED - SQUARE & S
sult or 1/2 SDL (gamma-chlordane)			
	General Sta	atistics	
Number of Valid Samples	166	Number of Unique Samples	95

			N :3.5
Raw Statistics		Log-transformed Statistics	
Minimum	1.1000E-4	Minimum of Log Data	-9.115
Maximum	0.0156	Maximum of Log Data	-4.16
Mean	6.9043E-4	Mean of log Data	-8.462
Median	1.3050E-4	SD of log Data	1.117
SD	0.0020	отничения сторования выправления на намерия на простоя выполнения на применения выполнения выполнения на намерия н	
Coefficient of Variation	3.004		
Skewness	5.46		
	Relevant UC	L Statistics	11.107.106.1 ₆ 01.1 ₆ 0.1 ₆ 0.1
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.403	Lilliefors Test Statistic	0.401
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.0688
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	J
Assuming Normal Distribution	1	Assuming Lognormal Distribution	ara and an area and an area area.
95% Student's-t UCL	9.5669E-4	95% H-UCL	4.8009E-4
95% UCLs (Adjusted for Skewness)	<u> </u>	95% Chebyshev (MVUE) UCL	5.7780E-4
95% Adjusted-CLT UCL	0.0010	97.5% Chebyshev (MVUE) UCL	6.5819E-4
95% Modified-t UCL	9.6806E-4	99% Chebyshev (MVUE) UCL	8.1611E-4
Gamma Distribution Test		Data Distribution	ar, professorere, evit, elektrick (Detail)
k star (bias corrected)	0.526	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	0.0013		
nu star	174.6		
Approximate Chi Square Value (.05)	145	Nonparametric Statistics	and the second s
Adjusted Level of Significance	0.0486	95% CLT UCL	9 5520F-4
Adjusted Chi Square Value	144.8	95% Jackknife UCL	
7 Agustou Oni Oquaro Valuo	177.0		9.5122E-4
Anderson-Darling Test Statistic	37.97	95% Bootstrap-t UCL	0.0011
Anderson-Darling 5% Critical Value	0.817	95% Hall's Bootstrap UCL	0.0010
Kolmogorov-Smirnov Test Statistic	0.436	·	9.6795E-4
Kolmogorov-Smirnov 5% Critical Value	0.436	95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL	0.0010
- .	1 1	·	<u> </u>
Data not Gamma Distributed at 5% Significance Le	vei	95% Chebyshev(Mean, Sd) UCL	0.0013
		97.5% Chebyshev(Mean, Sd) UCL	0.0017
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0022
95% Approximate Gamma UCL	8.3116E-4		
95% Adjusted Gamma UCL	8.3251E-4		
Potential UCL to Use	***************************************	Use 97.5% Chebyshev (Mean, Sd) UCL	0.0017
sult or 1/2 SDL (heptachlorobiphenyl (170))			
	General S	tatistics	
Number of Valid Samples	27	Number of Unique Samples	18
Raw Statistics		Log-transformed Statistics	
	5.4000E-5	Minimum of Log Data	-9.827
	1		-4.492
Maximum	0.0112	Maximum of Log Data	-4.492

	2. 2. 2. 2. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.		
	6.0500E-5	SD of log Data	1.109
SD	0.0021		
Coefficient of Variation	4.214		
Skewness	5.179		
	Relevant UC	L Statistics	naga marajawa ayo na tabbana na Wale na
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.22	Shapiro Wilk Test Statistic	0.497
Shapiro Wilk Critical Value	0.923	Shapiro Wilk Critical Value	0.923
Data not Normal at 5% Significance Level	<u></u>	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0012		3.0157E-4
	0.0012		3.4359E-4
95% UCLs (Adjusted for Skewness)	0.0010		4.2093E-4
95% Adjusted-CLT UCL	0.0016	· ' ' ' '	
95% Modified-t UCL	0.0012	99% Chebyshev (MVUE) UCL	5.7284E-4
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.37	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.0013		
nu star	19.96		
Approximate Chi Square Value (.05)	10.82	Nonparametric Statistics	
Adjusted Level of Significance	0.0401	95% CLT UCL	0.001
Adjusted Chi Square Value	10.39	95% Jackknife UCL	0.001
		95% Standard Bootstrap UCL	0.001
Anderson-Darling Test Statistic	7.791	95% Bootstrap-t UCL	0.021
Anderson-Darling 5% Critical Value	0.833	95% Hall's Bootstrap UCL	0.012
Kolmogorov-Smirnov Test Statistic	0.427	95% Percentile Bootstrap UCL	0.001
Kolmogorov-Smirnov 5% Critical Value	0.181	95% BCA Bootstrap UCL	0.002
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.002
	I	97.5% Chebyshev(Mean, Sd) UCL	0.003
Assuming Gamma Distribution	<u> </u>	99% Chebyshev(Mean, Sd) UCL	0.004
_	9.3640E-4		
	9.7515E-4		
oora rajustee dariina oo i	0.70102 4		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.004
Result or 1/2 SDL (heptachlorobiphenyl (180))			
	General S	tatietice	angronny merandesiale
Number of Valid Samples	27	Number of Unique Samples	21
D 01-11 11		1	
Raw Statistics	E 75000 5	Log-transformed Statistics	-9.764
and the factor of the first of the factor of	5.7500E-5	Minimum of Log Data	
Maximum	0.0183	Maximum of Log Data	-4.001
	8.0478E-4	Mean of log Data	-9.025
	6.6000E-5	SD of log Data	1.215
SD	0.0035		
Coefficient of Variation	4.347		
Skewness	5.186		

	Relevant UC	CL Statistics	1 EN
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.219	Shapiro Wilk Test Statistic	0.6
Shapiro Wilk Critical Value	0.923	Shapiro Wilk Critical Value	0.923
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0019	95% H-UCL	4.8616E-4
95% UCLs (Adjusted for Skewness)	1	95% Chebyshev (MVUE) UCL	5.3266E-4
95% Adjusted-CLT UCL	0.0026	97.5% Chebyshev (MVUE) UCL	6.5892E-4
95% Modified-t UCL	0.0020		9.0693E-4
Gamma Distribution Test		Data Distribution	Pris 18 1 18 18 18 18 18 18 18 18 18 18 18 1
	0.220		E\
k star (bias corrected)	0.339	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	0.0023		
nu star	18.3		quantitative bree
Approximate Chi Square Value (.05)	9.605	Nonparametric Statistics	·
Adjusted Level of Significance	0.0401	95% CLT UCL	0.0019
Adjusted Chi Square Value	9.203	95% Jackknife UCL	0.0019
TOTO ENTRE PROTECTION OF THE P		95% Standard Bootstrap UCL	0.0018
Anderson-Darling Test Statistic	6.864	95% Bootstrap-t UCL	0.0297
Anderson-Darling 5% Critical Value	0.841	95% Hall's Bootstrap UCL	0.0148
Kolmogorov-Smirnov Test Statistic	0.394	95% Percentile Bootstrap UCL	0.0021
Kolmogorov-Smirnov 5% Critical Value	0.181	95% BCA Bootstrap UCL	0.0028
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.0037
		97.5% Chebyshev(Mean, Sd) UCL	0.0050
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0075
95% Approximate Gamma UCL	0.0015		
95% Adjusted Gamma UCL	0.0016		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.0075
Result or 1/2 SDL (heptachlorobiphenyl (183))			
	General S		
Number of Valid Samples	27	Number of Unique Samples	17
· Raw Statistics		Log-transformed Statistics	
Minimum	6.6000E-5	Minimum of Log Data	-9.626
Maximum	0.0058	Maximum of Log Data	-5.148
Mean	3.0648E-4	Mean of log Data	-9.286
Median	7.3500E-5	SD of log Data	0.928
SD	0.0011		
Coefficient of Variation	3.607		
Skewness	5.118		-
F	Relevant UC	L Statistics	· · · · · · · · · · · · · · · · · · ·
Normal Distribution Test	***************************************	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.228	Shapiro Wilk Test Statistic	0.339
Shapiro Wilk Critical Value	0.923	Shapiro Wilk Critical Value	0.923
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	6.6932E-4	95% H-UCL	2.2061E~
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	2.6206E-
95% Adjusted-CLT UCL	8.8028E-4	97.5% Chebyshev (MVUE) UCL	3.1504E-
95% Modified-t UCL	7.0424E-4	99% Chebyshev (MVUE) UCL	4.1912E-
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.493	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	6.2145E-4		V-440-(1-10-10-10-10-10-10-10-10-10-10-10-10-10
nu star	26.63		
Approximate Chi Square Value (.05)	15.87	Nonparametric Statistics	
Adjusted Level of Significance	0.0401	95% CLT UCL	6.5639E-
Adjusted Chi Square Value	15.33	95% Jackknife UCL	6.6932E-
	<u> </u>	95% Standard Bootstrap UCL	6.4808E-
Anderson-Darling Test Statistic	9.122	95% Bootstrap-t UCL	0.08
Anderson-Darling 5% Critical Value	0.805	95% Hall's Bootstrap UCL	0.01
Kolmogorov-Smirnov Test Statistic	0.544	95% Percentile Bootstrap UCL	7.3128E-
Kolmogorov-Smirnov 5% Critical Value	0.178		9.6457E-
Data not Gamma Distributed at 5% Significance Le	I I	95% Chebyshev(Mean, Sd) UCL	0.00
Data Not Gamma Distributed at 578 Orginicance Le	1	97.5% Chebyshev(Mean, Sd) UCL	0.00
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.002
_	5.1442E-4	99% Chebyshev (Mean, Su) DCL	0.002
95% Approximate Gamma UCL			
95% Adjusted Gamma UCL	5.3225E-4		***************************************
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.001
esult or 1/2 SDL (heptachlorobiphenyl (187))	General Sta	atistics	
Number of Valid Samples	27	Number of Unique Samples	
		rumber of ornique campies	19
Dow Statistics			19
Raw Statistics	E 1000E E	Log-transformed Statistics	
Minimum	5.1000E-5	Log-transformed Statistics Minimum of Log Data	-9.884
Minimum Maximum	0.0134	Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-9.884 -4.313
Minimum Maximum Mean	0.0134 5.9919E-4	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-9.884 -4.313 -9.225
Minimum Maximum Mean Median	0.0134 5.9919E-4 5.8000E-5	Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-9.884 -4.313 -9.225
Minimum Maximum Mean Median SD	0.0134 5.9919E-4 5.8000E-5 0.0025	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-9.884 -4.313 -9.225
Minimum Maximum Mean Median SD Coefficient of Variation	0.0134 5.9919E-4 5.8000E-5 0.0025 4.273	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-9.884 -4.313 -9.225
Minimum Maximum Mean Median SD	0.0134 5.9919E-4 5.8000E-5 0.0025	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-9.884 -4.313 -9.225
Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0134 5.9919E-4 5.8000E-5 0.0025 4.273	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Statistics	-9.884 -4.313 -9.225
Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0134 5.9919E-4 5.8000E-5 0.0025 4.273 5.183	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test	-9.884 -4.313 -9.225 1.173
Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic	0.0134 5.9919E-4 5.8000E-5 0.0025 4.273 5.183	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic	-9.884 -4.313 -9.225 1.173
Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.0134 5.9919E-4 5.8000E-5 0.0025 4.273 5.183	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	-9.884 -4.313 -9.225 1.173
Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic	0.0134 5.9919E-4 5.8000E-5 0.0025 4.273 5.183	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic	-9.884 -4.313 -9.225 1.173
Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.0134 5.9919E-4 5.8000E-5 0.0025 4.273 5.183	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	-9.884 -4.313 -9.225 1.173
Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	0.0134 5.9919E-4 5.8000E-5 0.0025 4.273 5.183	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	-9.884 -4.313 -9.225 1.173 0.574 0.923
Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	0.0134 5.9919E-4 5.8000E-5 0.0025 4.273 5.183 Relevant UCL S	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution	-9.884 -4.313 -9.225 1.173 0.574 0.923

95% Modified-t UCL	0.0015	99% Chebyshev (MVUE) UCL	6 8716E-4
3570 Woulder Cock	0.0013	33 % Citebysiles (WVOL) OCL	0.0710L~
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.353	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.0017		
nu star	19.06		
Approximate Chi Square Value (.05)	10.16	Nonparametric Statistics	na garling niver sign galer finds of a glindgijk finde gart
Adjusted Level of Significance	0.0401	95% CLT UCL	0.001
Adjusted Chi Square Value	9.748	95% Jackknife UCL	0.001
		95% Standard Bootstrap UCL	0.001
Anderson-Darling Test Statistic	7.089	95% Bootstrap-t UCL	0.020
Anderson-Darling 5% Critical Value	0.837	95% Hall's Bootstrap UCL	0.011
Kolmogorov-Smirnov Test Statistic	0,368	95% Percentile Bootstrap UCL	0.001
Kolmogorov-Smirnov 5% Critical Value	0.181	95% BCA Bootstrap UCL	0.002
Data not Gamma Distributed at 5% Significance Lev	vel	95% Chebyshev(Mean, Sd) UCL	0.002
		97.5% Chebyshev(Mean, Sd) UCL	0.003
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.005
95% Approximate Gamma UCL	0.0011		
95% Adjusted Gamma UCL	0.0011		
Potential UCL to Use	4	Use 99% Chebyshev (Mean, Sd) UCL	0.005
esult or 1/2 SDL (hexachlorobiphenyl (128))	General Sta	atistics	
Number of Valid Samples	General Sta	atistics Number of Unique Samples	21
Number of Valid Samples		Number of Unique Samples	21
Number of Valid Samples Raw Statistics	27	Number of Unique Samples Log-transformed Statistics	
Number of Valid Samples Raw Statistics Minimum	27 8.5500E-5	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	-9.367
Number of Valid Samples Raw Statistics Minimum Maximum	8.5500E-5 0.0083	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-9.367 -4.784
Number of Valid Samples Raw Statistics Minimum Maximum Mean	8.5500E-5 0.0083 4.5378E-4	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-9.367 -4.784 -8.867
Raw Statistics Minimum Maximum Mean Median	8.5500E-5 0.0083 4.5378E-4 9.6000E-5	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-9.367 -4.784 -8.867
Raw Statistics Minimum Maximum Mean Median . SD	8.5500E-5 0.0083 4.5378E-4 9.6000E-5 0.0015	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-9.367 -4.784 -8.867
Raw Statistics Minimum Maximum Mean Median . SD Coefficient of Variation	8.5500E-5 0.0083 4.5378E-4 9.6000E-5 0.0015 3.498	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-9.367 -4.784 -8.867
Raw Statistics Minimum Maximum Mean Median . SD	8.5500E-5 0.0083 4.5378E-4 9.6000E-5 0.0015	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-9.367 -4.784
Raw Statistics Minimum Maximum Mean Median . SD Coefficient of Variation Skewness	8.5500E-5 0.0083 4.5378E-4 9.6000E-5 0.0015 3.498	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-9.367 -4.784 -8.867
Raw Statistics Minimum Maximum Mean Median . SD Coefficient of Variation Skewness R Normal Distribution Test	8.5500E-5 0.0083 4.5378E-4 9.6000E-5 0.0015 3.498 5.123	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test	-9.367 -4.784 -8.867 0.978
Raw Statistics Minimum Maximum Mean Median Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic	8.5500E-5 0.0083 4.5378E-4 9.6000E-5 0.0015 3.498 5.123	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic	-9.367 -4.784 -8.867 0.978
Raw Statistics Minimum Maximum Mean Median . SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	8.5500E-5 0.0083 4.5378E-4 9.6000E-5 0.0015 3.498 5.123	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	-9.367 -4.784 -8.867 0.978
Raw Statistics Minimum Maximum Mean Median Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic	8.5500E-5 0.0083 4.5378E-4 9.6000E-5 0.0015 3.498 5.123 Relevant UCL	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic	-9.367 -4.784 -8.867
Raw Statistics Minimum Maximum Mean Median . SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	8.5500E-5 0.0083 4.5378E-4 9.6000E-5 0.0015 3.498 5.123 Relevant UCL	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	-9.367 -4.784 -8.867 0.978
Raw Statistics Minimum Maximum Mean Median . SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	8.5500E-5 0.0083 4.5378E-4 9.6000E-5 0.0015 3.498 5.123 Relevant UCL 0.243 0.923	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution	-9.367 -4.784 -8.867 0.978 0.519
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median . SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	8.5500E-5 0.0083 4.5378E-4 9.6000E-5 0.0015 3.498 5.123 Relevant UCL	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	-9.367 -4.784 -8.867 0.978 0.519 0.923
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median . SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	8.5500E-5 0.0083 4.5378E-4 9.6000E-5 0.0015 3.498 5.123 Relevant UCL 0.243 0.923	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-9.367 -4.784 -8.867 0.978 0.519 0.923 3.6365E-4
Raw Statistics Minimum Maximum Mean Median . SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	8.5500E-5 0.0083 4.5378E-4 9.6000E-5 0.0015 3.498 5.123 Relevant UCL 0.243 0.923 9.7482E-4	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-9.367 -4.784 -8.867 0.978 0.519 0.923 3.6365E-4 4.2833E-4 5.1775E-4
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median . SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	8.5500E-5 0.0083 4.5378E-4 9.6000E-5 0.0015 3.498 5.123 Relevant UCL 0.243 0.923	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-9.367 -4.784 -8.867 0.978 0.519 0.923 3.6365E-4 4.2833E-4 5.1775E-4
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median . SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL	8.5500E-5 0.0083 4.5378E-4 9.6000E-5 0.0015 3.498 5.123 Relevant UCL 0.243 0.923 9.7482E-4	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-9.367 -4.784 -8.867 0.978 0.519 0.923 3.6365E-4 4.2833E-4 5.1775E-4
Raw Statistics Minimum Maximum Mean Median . SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	8.5500E-5 0.0083 4.5378E-4 9.6000E-5 0.0015 3.498 5.123 Relevant UCL 0.243 0.923 9.7482E-4	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	-9.367 -4.784 -8.867 0.978 0.923 0.923 3.6365E-4 4.2833E-4 5.1775E-4 6.9340E-4

nu star	27.12	has the control of th	
Approximate Chi Square Value (.05)	16.25	Nonparametric Statistics	
Adjusted Level of Significance	0.0401	95% CLT UCL	9.5626E-4
Adjusted Chi Square Value	15.71	95% Jackknife UCL	9.7482E-4
		95% Standard Bootstrap UCL	9.3325E-4
Anderson-Darling Test Statistic	7.104	95% Bootstrap-t UCL	0.0092
Anderson-Darling 5% Critical Value	0.804	95% Hall's Bootstrap UCL	0.005
Kolmogorov-Smirnov Test Statistic	0.424	95% Percentile Bootstrap UCL	0.0010
Kolmogorov-Smirnov 5% Critical Value	0.177	95% BCA Bootstrap UCL	0.001
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.001
		97.5% Chebyshev(Mean, Sd) UCL	0.002
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.003
95% Approximate Gamma UCL	7.5756E-4		
95% Adjusted Gamma UCL	7.8353E-4		
a annument of the second of th	7.000B	an manangan kantan kant	
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.001
esult or 1/2 SDL (hexachlorobiphenyl (138))			
	General S	Statistics	
Number of Valid Samples	27	Number of Unique Samples	25
Trained of Valid Cumples		Number of offique dumples	
Raw Statistics		Log-transformed Statistics	o Newson and all the blatter of the blatter
	1.2950E-4	Minimum of Log Data	-8.952
етактомит помности, ответно решинентицентеннями маниматичность и мереничностичности, подроження выполняющего причина	0.0432		-3.142
Maximum		Maximum of Log Data	
Mean	0.0019	Mean of log Data	-8.156
Median	1.4700E-4	SD of log Data	1.28
SD	0.0082		
Coefficient of Variation	4.258		
Skewness	5.179		
	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.226	Shapiro Wilk Test Statistic	0.632
Shapiro Wilk Critical Value	0.923	Shapiro Wilk Critical Value	0.923
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	III-MEMIKINEKIINE IIIIIIIIIIIII	Assuming Lognormal Distribution	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
95% Student's-t UCL	0.0046		0.001
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.001
95% Adjusted-CLT UCL	0,0062	97.5% Chebyshev (MVUE) UCL	0.001
95% Adjusted-CE1 OCE	0.0002		0.001
33 % Modified-t OCL	0,0049	33 % Chebyshev (MVCE) GCE	0.002
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.337	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	0.0057		araill lamous troub or at Molecularies
nu star	18.22		
Approximate Chi Square Value (.05)	9.547	Nonparametric Statistics	
		· ·	·
Adjusted Level of Significance	0.0401	95% CLT UCL	0.004
	0.0401 9.146	95% CLT UCL 95% Jackknife UCL	0.004

Anderson-Darling Test Statistic	6.365	95% Bootstrap-t UCL	0.050
Anderson-Darling 5% Critical Value	0.841	95% Hall's Bootstrap UCL	0.030
Kolmogorov-Smirnov Test Statistic	0.346	95% Percentile Bootstrap UCL	0.005
Kolmogorov-Smirnov 5% Critical Value	0.181	95% BCA Bootstrap UCL	0.006
Data not Gamma Distributed at 5% Significance Lev	/el	95% Chebyshev(Mean, Sd) UCL	0.008
		97.5% Chebyshev(Mean, Sd) UCL	0.011
Assuming Gamma Distribution	***************************************	99% Chebyshev(Mean, Sd) UCL	0.017
95% Approximate Gamma UCL	0.0037		
95% Adjusted Gamma UCL	0.0038		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.017
esult or 1/2 SDL (hexachlorobiphenyl (153))			
	General St	atistics	
Number of Valid Samples	27	Number of Unique Samples	20
Raw Statistics	-	Log-transformed Statistics	
Minimum	6.2500E-5	Minimum of Log Data	-9.68
Maximum	0.0501	Maximum of Log Data	-2.994
Mean	0.0026	Mean of log Data	-8.616
Median	7.0500E-5	SD of log Data	1.720
SD	0.0099		
Coefficient of Variation	3.801		
Skewness	4.646		agadanahagi (galayana) anaar araa (araa) a
	elevant UCL	Statistics	********************************
Normal Distribution Test	ielevalit OCL	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.287	Shapiro Wilk Test Statistic	0.653
Shapiro Wilk Critical Value	0.923	Shapiro Wilk Critical Value	0.923
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0058	95% H-UCL	0.002
95% UCLs (Adjusted for Skewness)	0.0000	95% Chebyshev (MVUE) UCL	0.002
95% Adjusted-CLT UCL	0.0075	97.5% Chebyshev (MVUE) UCL	0.002
95% Adjusted-CL1 OCL	0.0075	99% Chebyshev (MVUE) UCL	0.002
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.259	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.01		- 14- 106: Marriage - 14-16: 1-18-16
nu star	14.01		
Approximate Chi Square Value (.05)	6.579	Nonparametric Statistics	
Adjusted Level of Significance	0.0401	95% CLT UCL	0.00
Adjusted Chi Square Value	6.254	95% Jackknife UCL	0.00
	-	95% Standard Bootstrap UCL	0.00
Anderson-Darling Test Statistic	6.082	95% Bootstrap-t UCL	0.08
Anderson-Darling 5% Critical Value	0.868	95% Hall's Bootstrap UCL	0.05
Kolmogorov-Smirnov Test Statistic	0.36	95% Percentile Bootstrap UCL	0.00
Kolmogorov-Smirnov 5% Critical Value	0.184	95% BCA Bootstrap UCL	0.00
Data not Gamma Distributed at 5% Significance Lev		95% Chebyshev(Mean, Sd) UCL	0.01

			1 100
		97.5% Chebyshev(Mean, Sd) UCL	0.0145
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0216
95% Approximate Gamma UCL	0.0055		
95% Adjusted Gamma UCL	0.0058		
			a managara ana aga a aga at ang
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.0216
tesult or 1/2 SDL (hexachlorobiphenyl (156))			only to realize the state of th
· · · · · · · · · · · · · · · · · · ·	General	Natiolog	
Number of Valid Samples	27	Number of Unique Samples	18
Raw Statistics	William Personal and an adams	Log-transformed Statistics	
	6.6000E-5	Minimum of Log Data	-9.626
Maximum	0.0061	Maximum of Log Data	-5.095
	3.2159E-4	Mean of log Data	-9.254
	7.3500E-5	SD of log Data	0.942
SD			
Coefficient of Variation	3.626		
Skewness	5.125		
	D-1	N. Clastation	
Normal Distribution Test	Relevant UC	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.23	Shapiro Wilk Test Statistic	0.382
Shapiro Wilk Critical Value	0.923	Shapiro Wilk Critical Value	0.923
Data not Normal at 5% Significance Level	1	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	\$12000000000000000000000000000000000000	Assuming Lognormal Distribution	·
95% Student's-t UCL	7.0436E-4	95% H-UCL	2.3267E-4
95% UCLs (Adjusted for Skewness)	· · · · · · · · · · · · · · · · · · ·	95% Chebyshev (MVUE) UCL	2.7581E-4
	9.2722E-4		3.3207E-4
95% Modified-t UCL	7.4124E-4	99% Chebyshev (MVUE) UCL	4.4259E-4
Gamma Distribution Test		Data Distribution	- Language Control of the Control of
k star (bias corrected)	0.488	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	6.5941E-4		
nu star	26.34		
Approximate Chi Square Value (.05)	15.64	Nonparametric Statistics	
Adjusted Level of Significance	0.0401	95% CLT UCL	6.9072E-4
Adjusted Chi Square Value	15.11	95% Jackknife UCL	7.0436E-4
		95% Standard Bootstrap UCL	6.9254E-4
Anderson-Darling Test Statistic	8.678	95% Bootstrap-t UCL	0.017
Anderson-Darling 5% Critical Value	0.805	95% Hall's Bootstrap UCL	0.016
Kolmogorov-Smirnov Test Statistic	0.512	95% Percentile Bootstrap UCL	7.5100E-4
Kolmogorov-Smirnov 5% Critical Value	0.178	95% BCA Bootstrap UCL	9.9581E-4
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.001
		97.5% Chebyshev(Mean, Sd) UCL	0.001
Assuming Gamma Distribution	J	99% Chebyshev(Mean, Sd) UCL	0.002
95% Approximate Gamma UCL	5.4159E-4		and the second s
95% Adjusted Gamma UCL	5.6048E-4		Complete Control Contr

sult or 1/2 SDL (indeno(1,2,3-cd)pyrene)	. Li t-stet = Hardyst- stetti i i i she a treparit i ili she a		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
ult of 172 SDL (Indeno(1,2,3-ca)pyrene)			Carrier and the second surprise
	General Stat		
Number of Valid Samples	166	Number of Unique Samples	136
Raw Statistics		Log-transformed Statistics	
Minimum	0.0071	Minimum of Log Data	-4.948
Maximum	6.49	Maximum of Log Data	1.87
Mean	0.368	Mean of log Data	-2.635
Median	0.0845	SD of log Data	1.88
SD	0.812		
Coefficient of Variation	2.21		
Skewness	4.251	·	
R	elevant UCL S	tatistics	
Normal Distribution Test		Lognormal Distribution Test	.,,
Lilliefors Test Statistic	0.335	Lilliefors Test Statistic	0.20
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.06
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.472	95% H-UCL	0.66
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.82
95% Adjusted-CLT UCL	0.494	97.5% Chebyshev (MVUE) UCL	1.00
95% Modified-t UCL	0.475	99% Chebyshev (MVUE) UCL	1.35
Gamma Distribution Test		Data Distribution	and the second s
. k star (bias corrected)	0.399	Data do not follow a Discernable Distribution (0.05)
Theta Star	0.921		<i></i>
nu star	132.4		
Approximate Chi Square Value (.05)	106.9	Nonparametric Statistics	***************************************
Adjusted Level of Significance	0.0486	95% CLT UCL	0.47
Adjusted Chi Square Value	106.7	95% Jackknife UCL	0.47
, agasta sin equal sin equal sin		95% Standard Bootstrap UCL	0.47
Anderson-Darling Test Statistic	9.141	95% Bootstrap-t UCL	0.51
Anderson-Darling 5% Critical Value	0.844	95% Hall's Bootstrap UCL	0.52
Kolmogorov-Smirnov Test Statistic	0.183	95% Percentile Bootstrap UCL	0.47
Kolmogorov-Smirnov 5% Critical Value	0.0776	95% BCA Bootstrap UCL	0.49
Data not Gamma Distributed at 5% Significance Lev		95% Chebyshev(Mean, Sd) UCL	0.64
		97.5% Chebyshev(Mean, Sd) UCL	0.76
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.99
95% Approximate Gamma UCL	0.456		
95% Adjusted Gamma UCL	0.456		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.76

	General	Statistics	tar to
Number of Valid Samples	166	Number of Unique Samples	125
Raw Statistics	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Log-transformed Statistics	
Minimum	2410	Minimum of Log Data	7.787
Maximum	77100	Maximum of Log Data	11.25
Mean	14277	Mean of log Data	9.418
Median	12400	SD of log Data	0.533
SD	9389		
Coefficient of Variation	0.658		
Skewness	3.268		H
	Relevant I I	CL Statistics	
Normal Distribution Test	· · · · · · · · · · · · · · · · · · ·	Lognormal Distribution Test	
Lilliefors Test Statistic	0.205	Lilliefors Test Statistic	0.090
Lilliefors Critical Value	0.0688		0.068
Data not Normal at 5% Significance Level	0.0000	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	15482	95% H-UCL	15314
95% UCLs (Adjusted for Skewness)	4	95% Chebyshev (MVUE) UCL	16907
95% Adjusted-CLT UCL	15673	97.5% Chebyshev (MVUE) UCL	18087
95% Modified-t UCL	15513	99% Chebyshev (MVUE) UCL	20403
Gamma Distribution Test		Data Distribution	and and a second to the second se
k star (bias corrected)	3.478	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	4105		
nu star	1155		grant annually consequent about the settlement
Approximate Chi Square Value (.05)	1077	Nonparametric Statistics	
Adjusted Level of Significance	0.0486		15475
Adjusted Chi Square Value	1076	95% Jackknife UCL	15482
		95% Standard Bootstrap UCL	15452
Anderson-Darling Test Statistic	3.183	95% Bootstrap-t UCL	15756
Anderson-Darling 5% Critical Value	0.758	95% Hall's Bootstrap UCL	15776
Kolmogorov-Smirnov Test Statistic	0.127	95% Percentile Bootstrap UCL	15528
Kolmogorov-Smirnov 5% Critical Value	0.0728		15729
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	17453
		97.5% Chebyshev(Mean, Sd) UCL	18828
Assuming Gamma Distribution	<u></u>	99% Chebyshev(Mean, Sd) UCL	21528
95% Approximate Gamma UCL	15309	30% Chebyone (Modifi, Gay Got	
95% Adjusted Gamma UCL	15319		and Alexal Phone affection to the
			adiet f., rauman, mati, t etem, rain rates a
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	17453
lesult or 1/2 SDL (isopropylbenzene (cumene))			
	General	Statistics	na frafe de stance de la companie de
Number of Valid Samples	83	Number of Unique Samples	64
Raw Statistics	· · · · · · · · · · · · · · · · · · ·	Log-transformed Statistics	
I JOHN CHORISTICS		Log-uanaionneu Siauauca	

Maximum	64.9	Maximum of Log Data	4.173
Mean	0.831	Mean of log Data	-8.404
Median	7.2000E-5	SD of log Data	2.525
SD	7.13		
Coefficient of Variation	8.582		
Skewness	9.065		
	Polovont I I	CL Statistics	
Normal Distribution Test	Relevant OC	Lognormal Distribution Test	***************************************
Lilliefors Test Statistic	0.514	Lilliefors Test Statistic	0.367
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.09
Data not Normal at 5% Significance Level	1	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	1 0 100	Assuming Lognormal Distribution	0.04
95% Student's-t UCL	2.133	95% H-UCL	0.010
95% UCLs (Adjusted for Skewness)	·	95% Chebyshev (MVUE) UCL	0.014
95% Adjusted-CLT UCL	2.95	97.5% Chebyshev (MVUE) UCL	0.018
95% Modified-t UCL	2.263	99% Chebyshev (MVUE) UCL	0.026
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.103	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	8.035		······································
nu star	17.17		
Approximate Chi Square Value (.05)	8.79	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	2.11
Adjusted Chi Square Value	8.684	95% Jackknife UCL	2.13
		95% Standard Bootstrap UCL	2,09
Anderson-Darling Test Statistic	26.04	95% Bootstrap-t UCL	375
Anderson-Darling 5% Critical Value	1.026	95% Hall's Bootstrap UCL	363.5
Kolmogorov-Smirnov Test Statistic	0.415	95% Percentile Bootstrap UCL	2.39
Kolmogorov-Smirnov 5% Critical Value	0.113	95% BCA Bootstrap UCL	3.95
Data not Gamma Distributed at 5% Significance Le	<u> </u>	95% Chebyshev(Mean, Sd) UCL	4.24
		97.5% Chebyshev(Mean, Sd) UCL	5.71
Assuming Gamma Distribution	1	99% Chebyshev(Mean, Sd) UCL	8.61
95% Approximate Gamma UCL	1.622		
95% Adjusted Gamma UCL	1.642		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	8.618
esult or 1/2 SDL (lead)			
	General	Statistics	
Number of Valid Samples	166	Number of Unique Samples	145
D. O. P.			
Raw Statistics	T 0.40	Log-transformed Statistics	0.00
Minimum	2.48	Minimum of Log Data	0.90
Maximum	702	Maximum of Log Data	6.55
Mean	53.52	Mean of log Data	3.18
Median	17.1	SD of log Data	1.12
SD	104.2		***************************************
Coefficient of Variation	1.947		

	4 270		Taylor St
Skewness	4.276		da t. e summi un d'art du mui de l'enfrant Pde an
F	Relevant UCL	Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.312	Lilliefors Test Statistic	0.13
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.06
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	66.9	95% H-UCL	55.13
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	66.37
95% Adjusted-CLT UCL	69.69	97.5% Chebyshev (MVUE) UCL	75.62
95% Modified-t UCL	67.35	99% Chebyshev (MVUE) UCL	93.79
Gamma Distribution Test		Data Distribution	HILLIAN AND
k star (bias corrected)	0.744	Data do not follow a Discernable Distribution (0.05	\
Theta Star	71.97	Data do not follow a Discernable Distribution (0.00	<i>!</i>
nu star	246.9		4
Approximate Chi Square Value (.05)	211.5	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	66.82
Adjusted Chi Square Value	211.2	95% Jackknife UCL	66.9
, ajaced on oquato value		95% Standard Bootstrap UCL	66.4
Anderson-Darling Test Statistic	10.55	95% Bootstrap-t UCL	72.9
Anderson-Darling 7est olatistic	0.796	95% Hall's Bootstrap UCL	69.8
Kolmogorov-Smirnov Test Statistic	0.790	95% Percentile Bootstrap UCL	67.2
Kolmogorov-Smirnov 7est Statistic	0.191	95% BCA Bootstrap UCL	70.2
_			88.7
Data not Gamma Distributed at 5% Significance Lev	vei	95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL	104
Accuming Commo Distribution			134
Assuming Gamma Distribution	CO 47	99% Chebyshev(Mean, Sd) UCL	134
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	62.47		****************
Potential UCL to Use .		Use 97.5% Chebyshev (Mean, Sd) UCL	104
ult or 1/2 SDL (lithium)			
Number of Valid Samples	General St	Number of Unique Samples	145
Number of Valid Samples	100	Number of Onique Samples	140
Raw Statistics		Log-transformed Statistics	
Minimum	0.65	Minimum of Log Data	-0.43
Maximum	28.6	Maximum of Log Data	3.3
Mean	10.03	Mean of log Data	2.0
Median	9.02	SD of log Data	0.7
SD	6.299		-1
Coefficient of Variation	0.628		**************************************
Skewness	0.63		
		Chatlatina	Turna de la companya
	elevant i ir i	Siausucs	
Normal Distribution Test	televant UCL	Lognormal Distribution Test	

Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.068
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	-	Assuming Lognormal Distribution	440
95% Student's-t UCL	10.84	95% H-UCL	12.06
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	13.87
95% Adjusted-CLT UCL	10.86	97.5% Chebyshev (MVUE) UCL	15.27
95% Modified-t UCL	10.85	99% Chebyshev (MVUE) UCL	18.02
Gamma Distribution Test		Data Distribution	,,
k star (bias corrected)	2.103	Data do not follow a Discernable Distribution (0.05	
Theta Star	4.77	Data do not follow a Discernable Distribution (0.05)	<i>}</i>
and the control of th			
nu star	698.3		
Approximate Chi Square Value (.05)	638	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	10.84
Adjusted Chi Square Value	637.5	95% Jackknife UCL	10.84
		95% Standard Bootstrap UCL	10.82
Anderson-Darling Test Statistic	1.059	95% Bootstrap-t UCL	10.91
Anderson-Darling 5% Critical Value	0.765	95% Hall's Bootstrap UCL	10.87
Kolmogorov-Smirnov Test Statistic	0.0795	95% Percentile Bootstrap UCL	10.86
Kolmogorov-Smirnov 5% Critical Value	0.0733	95% BCA Bootstrap UCL	10.85
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	12.17
	-	97.5% Chebyshev(Mean, Sd) UCL	13.09
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	14.9
95% Approximate Gamma UCL	10.98		
95% Adjusted Gamma UCL	10.99		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	12.17
esult or 1/2 SDL (m,p-xylene)			
	General St	atistics	
Number of Valid Samples	83	Number of Unique Samples	81
Raw Statistics		Log-transformed Statistics	
	9.1000E-5	Minimum of Log Data	-9.305
Maximum	2.56	Maximum of Log Data	0.94
Mean	0.0347	Mean of log Data	-6.851
Median	0.0347	SD of log Data	1.64
		SD or log Data	1.04
SD SD	0.281		
Coefficient of Variation	8.104		
Skewness	9.073		d-aldraders for a side of the difference due
	Relevant UCL		
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.485	Lilliefors Test Statistic	0.17
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.09
Data not Normal at 5% Significance Level	4-1-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	angungaran nga pagang nga galandi did
95% Student's-t UCL	0.086	95% H-UCL	0.00

. . .

95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.008
95% Adjusted-CLT UCL	0.118	97.5% Chebyshev (MVUE) UCL	0.010
95% Modified-t UCL	0.0911	99% Chebyshev (MVUE) UCL	0.014
Gamma Distribution Test	TO A THIRD OF STREET, THE STREET, THE STREET, SAN	Data Distribution	
k star (bias corrected)	0.21	Data do not follow a Discernable Distribution (0.05)
Theta Star	0.165		antianted/engladfiants, effectively.com
nu star	34.84		
Approximate Chi Square Value (.05)	22.34	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.08
Adjusted Chi Square Value	22.16	95% Jackknife UCL	0.086
		95% Standard Bootstrap UCL	0.08
Anderson-Darling Test Statistic	18.54	95% Bootstrap-t UCL	2.13
Anderson-Darling 5% Critical Value	0.906	95% Hall's Bootstrap UCL	1.24
Kolmogorov-Smirnov Test Statistic	0.41	95% Percentile Bootstrap UCL	0.09
Kolmogorov-Smirnov 5% Critical Value	0.108	95% BCA Bootstrap UCL	0.15
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.16
V-1-0-1-0-1-0-1-0-1-0-1-0-1-0-1-0-1-0-1-		97.5% Chebyshev(Mean, Sd) UCL	0.22
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.34
95% Approximate Gamma UCL	0.0541		
95% Adjusted Gamma UCL	0.0545		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.22
ult or 1/2 SDL (manganese)	Co16	Notation	
	General S	,	133
ult or 1/2 SDL (manganese) Number of Valid Samples	General S	Statistics Number of Unique Samples	133
		,	133
Number of Valid Samples		Number of Unique Samples	
Number of Valid Samples Raw Statistics	166	Number of Unique Samples Log-transformed Statistics	4.08
Number of Valid Samples Raw Statistics Minimum	166 59.3	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	4.08 6.79
Number of Valid Samples Raw Statistics Minimum Maximum	59.3 892	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	4.08 6.79 5.47
Number of Valid Samples Raw Statistics Minimum Maximum Mean	59.3 892 261.2	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	4.08 6.79 5.47
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	59.3 892 261.2 224.5	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	4.08 6.79 5.47
Raw Statistics Minimum Maximum Mean Median	59.3 892 261.2 224.5 127.4	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	4.08 6.79 5.47
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	59.3 892 261.2 224.5 127.4 0.488 2.072	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	4.08 6.79 5.47
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	59.3 892 261.2 224.5 127.4 0.488	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	4.08 6.79 5.47
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test	59.3 892 261.2 224.5 127.4 0.488 2.072	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	4.08 6.79 5.47 0.42
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	59.3 892 261.2 224.5 127.4 0.488 2.072	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test	4.08 6.79 5.47 0.42
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic	59.3 892 261.2 224.5 127.4 0.488 2.072	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test Lilliefors Test Statistic	4.08 6.79 5.47 0.42
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level	59.3 892 261.2 224.5 127.4 0.488 2.072	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level	4.08 6.79 5.47 0.42
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	59.3 892 261.2 224.5 127.4 0.488 2.072 Relevant UC 0.146 0.0688	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution	4.08 6.79 5.47 0.42 0.07
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	59.3 892 261.2 224.5 127.4 0.488 2.072	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	4.08 6.79 5.47 0.42 0.07 0.06
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Norma! Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	59.3 892 261.2 224.5 127.4 0.488 2.072 Relevant UC	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	4.08: 6.79: 5.47 0.42! 0.07 0.06: 276.1
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Norma! Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	59.3 892 261.2 224.5 127.4 0.488 2.072 Relevant UC 0.146 0.0688	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	4.083 6.793 5.47 0.429 0.07 0.068 276.1 299.4 316.4
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Norma! Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	59.3 892 261.2 224.5 127.4 0.488 2.072 Relevant UC	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	4.08 6.79 5.47 0.42 0.07 0.06 276.1

k star (bias corrected)	5.314	Data do not follow a Discernable Distribution (0.05)
Theta Star	49.15		
nu star	1764		
Approximate Chi Square Value (.05)	1668	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	277.5
Adjusted Chi Square Value	1667	95% Jackknife UCL	277.5
		95% Standard Bootstrap UCL	277.3
Anderson-Darling Test Statistic	2.43	95% Bootstrap-t UCL	279
Anderson-Darling 5% Critical Value	0.755	95% Hall's Bootstrap UCL	280.1
Kolmogorov-Smirnov Test Statistic	0.0858	95% Percentile Bootstrap UCL	278.6
Kolmogorov-Smirnov 5% Critical Value	0.0725	95% BCA Bootstrap UCL	278.6
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	304.3
	<u> </u>	97.5% Chebyshev(Mean, Sd) UCL	323
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	359.6
95% Approximate Gamma UCL	276.3		
95% Adjusted Gamma UCL	276,4		t commit more comments
COOR AGISTIC COLOR	270.1		м,-шта-лачинательти
Potential UCL to Use		Use 95% Student's-t UCL	277.5
Totalital Doc to osc		or 95% Modified-t UCL	277.8
		G 30% Modified Cost	277.0
esult or 1/2 SDL (mercury)			
	015	enter transferente de la companya del companya de la companya del companya de la companya del la companya de la	
Number of Valid Samples	General S	Number of Unique Samples	94
rambol of value camples]	Training of oringes campiles	
Raw Statistics		Log-transformed Statistics	***************************************
Minimum	0.001	Minimum of Log Data	-6.908
Maximum	0.85	Maximum of Log Data	-0.163
Mean	0.0262	Mean of log Data	-4.969
Median	0.0068	SD of log Data	1.332
SD	0.0941		v
Coefficient of Variation	3.59		
Skewness	6.891		
	Relevant UC	тай-т-тактыр ком-тиничник жартак жартан жартар жарта	
Normal Distribution Test		Lognormal Distribution Test	^ ^~
Lilliefors Test Statistic	0.394	Lilliefors Test Statistic	0.097
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.068
Data not Normal at 5% Significance Level	a liberatura de la constanta d	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0383	95% H-UCL	0.021
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.026
95% Adjusted-CLT UCL	0.0424	97.5% Chebyshev (MVUE) UCL	0.031
95% Modified-t UCL	0.0389	99% Chebyshev (MVUE) UCL	0.039
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.477	Data do not follow a Discernable Distribution (0.05)
Theta Star	0.055		
nu star	158.3		

promotive and writed the very animometric promotive and commerced commerced to the commerced promotive and the com	d	For commencement and another transfer and another transfer and another and another another another another and another	
Adjusted Level of Significance	0.0486		0.0382
Adjusted Chi Square Value	130	95% Jackknife UCL	0.0383
		95% Standard Bootstrap UCL	0.0378
Anderson-Darling Test Statistic	14.93	95% Bootstrap-t UCL	0.0543
Anderson-Darling 5% Critical Value	0.825	95% Hall's Bootstrap UCL	0.0842
Kolmogorov-Smirnov Test Statistic	0.234	95% Percentile Bootstrap UCL	0.0396
Kolmogorov-Smirnov 5% Critical Value	0.0768	' 1	0.0435
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.058
		97.5% Chebyshev(Mean, Sd) UCL	0.0718
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0988
95% Approximate Gamma UCL	0.0319		
95% Adjusted Gamma UCL	0.0319		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.0718
	ALCOHOL STATE STAT		
			nus musualdas diba vieni
Result or 1/2 SDL (methylcyclohexane)			
	General S	Statistics	
Number of Valid Samples	83	Number of Unique Samples	77
reamber of value samples		Number of Orique Campics	
Raw Statistics	***************************************	Log-transformed Statistics	
Minimum	1.3750E-4	Minimum of Log Data	-8.892
Maximum	2.73	Maximum of Log Data	1.004
Mean	0.0369	_	-6.534
Median	0.0019		1.611
SD	0.0019	3D 01 log Data	1.011
Coefficient of Variation	8.123		
Skewness	9.089		
ORGANIESS	3.003		
	Relevant UC	CL Statistics	g(
Normal Distribution Test	and the second of the second o	Lognormal Distribution Test	
Lilliefors Test Statistic	0.494	Lilliefors Test Statistic	0.199
Lilliefors Critical Value	0.0973		0.0973
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	water (Marcon Income)
	TTT MATERIALISA (ST. 1148) TATE SPECIALISA (ST.		
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0915	95% H-UCL	0.0088
95% UCLs (Adjusted for Skewness)	<u> </u>	95% Chebyshev (MVUE) UCL	0.0108
95% Adjusted-CLT UCL	0.126	97.5% Chebyshev (MVUE) UCL	0.0132
95% Modified-t UCL	0.097	99% Chebyshev (MVUE) UCL	0.0179
Gamma Distribution Test		Data Distribution	ann ann an
k star (bias corrected)	0.224	Data do not follow a Discernable Distribution (0.05)
Theta Star	0.165		
nu star	37.11		#G-4-3-65-3136441-manga-1
Approximate Chi Square Value (.05)	24.17	Nonparametric Statistics	***************************************
Adjusted Level of Significance	0.0471	95% CLT UCL	0.0909
Adjusted Chi Square Value	23.98	95% Jackknife UCL	0.0915
,		95% Standard Bootstrap UCL	0.0909
Anderson-Darling Test Statistic	18.27	95% Bootstrap-t UCL	1.459
Anderson-Darling 5% Critical Value	0.9	95% Hall's Bootstrap UCL	1.338
rate to the state of the state	1 0.0	33 % Hall B Bookstap GOL	

		personal content of the content of t	
	1 1 1		
Kolmogorov-Smirnov Test Statistic	0.431	95% Percentile Bootstrap UCL	0.102
Kolmogorov-Smirnov 5% Critical Value	0.108	95% BCA Bootstrap UCL	0.168
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.18
	<u> </u>	97.5% Chebyshev(Mean, Sd) UCL	0.242
Assuming Gamma Distribution	1 00500	99% Chebyshev(Mean, Sd) UCL	0.364
95% Approximate Gamma UCL	0.0566		alana and photos halono at the latest
95% Adjusted Gamma UCL	0.057		······································
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.242
Result or 1/2 SDL (molybdenum)			
	General S	Statistics	
Number of Valid Samples	166	Number of Unique Samples	102
Raw Statistics	i da a a a a a a a a a a a a a a a a a a	Log-transformed Statistics	
Minimum	0.034	Minimum of Log Data	-3.381
Maximum	10.4	Maximum of Log Data	2.342
Mean	0.89	Mean of log Data	-1.228
Median	0.305	SD of log Data	1.597
SD	1.488		
Coefficient of Variation	1.671		
Skewness	3.38		
	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.282	Lilliefors Test Statistic	0.164
Lilliefors Critical Value	0.0688		0.068
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	· P	Assuming Lognormal Distribution	
95% Student's-t UCL	1.081	95% H-UCL	1.474
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.842
95% Adjusted-CLT UCL	1.113	97.5% Chebyshev (MVUE) UCL	2.192
95% Modified-t UCL	1.086	99% Chebyshev (MVUE) UCL	2.88
Gamma Distribution Test	enderen in Maria andra in desemble de l'Ariana ann e	Data Distribution	
k star (bias corrected)	0.555	Data do not follow a Discernable Distribution (0.05)
Theta Star			-
nu star	184.3		
Approximate Chi Square Value (.05)	153.9	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	-	1.08
Adjusted Chi Square Value	153.7	95% Jackknife UCL	1.08
, , , , , , , , , , , , , , , , , , , ,		95% Standard Bootstrap UCL	1.082
Anderson-Darling Test Statistic	4.333	95% Bootstrap-t UCL	1.129
Anderson-Darling 5% Critical Value	0.814	95% Hall's Bootstrap UCL	1.133
Kolmogorov-Smirnov Test Statistic	0.131	95% Percentile Bootstrap UCL	1.094
Kolmogorov-Smirnov 5% Critical Value	0.0763	95% BCA Bootstrap UCL	1.13
Data not Gamma Distributed at 5% Significance Le	<u> </u>	95% Chebyshev(Mean, Sd) UCL	1.394
- Production of the second of		· · · · · · · · · · · · · · · · · · ·	1.611
		97.5% Chebyshev(Mean, Sd) UCL	ונמ, ו

		安徽市 (1 5年 57 68 年41 1 7 李章 1 1 7 5 2 9 1	
95% Approximate Gamma UCL	1.066		
95% Adjusted Gamma UCL	1.068		
			4 011
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	1.611
sult or 1/2 SDL (naphthalene)			
	General Sta	itistics	
Number of Valid Samples	83	Number of Unique Samples	79
Raw Statistics		Log-transformed Statistics	
Minimum	1.3600E-4	Minimum of Log Data	-8,903
Maximum	19.2	Maximum of Log Data	2.955
Mean	0.323	Mean of log Data	-6.969
Median	0.0013	SD of log Data	2.216
SD	2.245		·
Coefficient of Variation	6.94		
Skewness	7.803		(11 - M T - 11 - 12 - 13 - 13 - 13 - 13 - 13 - 13
F	Relevant UCL	Statistics	
Normal Distribution Test		Lognormal Distribution Test	rent redressession (representation
Lilliefors Test Statistic	0.511	Lilliefors Test Statistic	0.208
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.097
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	garia - Language - Marina de Language
95% Student's-t UCL	0.733	95% H-UCL	0.026
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.027
95% Adjusted-CLT UCL	0.954	97.5% Chebyshev (MVUE) UCL	0.034
95% Modified-t UCL	0.768	99% Chebyshev (MVUE) UCL	0.049
Gamma Distribution Test		Data Distribution	4
k star (bias corrected)	0.137	Data do not follow a Discernable Distribution (0.05))
Theta Star	2.362		***************************************
nu star	22.74		
Approximate Chi Square Value (.05)	12.89	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.729
Adjusted Chi Square Value	12.76	95% Jackknife UCL	0.733
		95% Standard Bootstrap UCL	0.735
Anderson-Darling Test Statistic	21.77	95% Bootstrap-t UCL	52.02
Anderson-Darling 5% Critical Value	0.973	95% Hall's Bootstrap UCL	53.32
Kolmogorov-Smirnov Test Statistic	0.411	95% Percentile Bootstrap UCL	0.785
Kolmogorov-Smirnov 5% Critical Value	0.111	95% BCA Bootstrap UCL	1.047
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	1.397
		97.5% Chebyshev(Mean, Sd) UCL	1.862
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	2.775
95% Approximate Gamma UCL	0.57		
95% Adjusted Gamma UCL	0.576		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	2.775

ılt or 1/2 SDL (nickel)			
	General Stat	istics	-half) dd of 18-01 c. 13 1311 134 1111
Number of Valid Samples	166	Number of Unique Samples	120
Raw Statistics		Log-transformed Statistics	\$\$\$7.48\$\$\\
Minimum	2.7	Minimum of Log Data	0.99
Maximum	36.7	Maximum of Log Data	3.60
Mean	11.74	Mean of log Data	2.37
Median	11.65	SD of log Data	0.44
SD	4.874		
Coefficient of Variation	0.415		
Skewness	1.176		
· F	Relevant UCL S	Statistics	
Normal Distribution Test		Lognormal Distribution Test	mily matter many or deferred of
Lilliefors Test Statistic	0.0957	Lilliefors Test Statistic	0.10
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.06
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	10.07	Assuming Lognormal Distribution	10 5
95% Student's-t UCL	12.37	95% H-UCL	12.58
95% UCLs (Adjusted for Skewness)	40.4	95% Chebyshev (MVUE) UCL	13.68
95% Adjusted-CLT UCL 95% Modified-t UCL	12.4	97.5% Chebyshev (MVUE) UCL	14.47
95% Modified-t UCL	12.37	99% Chebyshev (MVUE) UCL	16.04
Gamma Distribution Test		Data Distribution	***************************************
k star (bias corrected)	5.687	Data do not follow a Discernable Distribution (0.05)	
Theta Star	2.064		
nu star	1888		
Approximate Chi Square Value (.05)	1788	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	12.36
Adjusted Chi Square Value	1787	95% Jackknife UCL	12.37
	0-16(1-1-16-1-17-17-18-17-18-17-18-17-18-17-18-17-18-17-18-17-18-17-18-17-18-17-18-17-18-17-18-17-18-17-18-17-	95% Standard Bootstrap UCL	12.37
Anderson-Darling Test Statistic	1.205	95% Bootstrap-t UCL	12.42
Anderson-Darling 5% Critical Value	0.755	95% Hall's Bootstrap UCL	12.45
Kolmogorov-Smirnov Test Statistic	0.0793	95% Percentile Bootstrap UCL	12.38
Kolmogorov-Smirnov 5% Critical Value	0.0725	95% BCA Bootstrap UCL	12.42
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	13.39
		97.5% Chebyshev(Mean, Sd) UCL	14.1
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	15.5
95% Approximate Gamma UCL	12.4		
95% Adjusted Gamma UCL	12.4		
Potential UCL to Use		Use 95% Student's-t UCL	12.37
	- Hatilitati Haya rasana-ultuka James eta Turadea	or 95% Modified-t UCL	12.3

General Statistics

	7.		a vere
Number of Valid Samples	27	Number of Unique Samples	16
Raw Statistics		Log-transformed Statistics	
Minimum	5.6500E-5	Minimum of Log Data	-9.781
Maximum	0.0048	Maximum of Log Data	-5.335
	3.0406E-4	Mean of log Data	-9.327
	6.3000E-5	SD of log Data	1.068
	9.3907E-4		
Coefficient of Variation	3.088		and and the same of the same o
Skewness	4.659		
OROWI JESS	4.003		
	Relevant UC	1 Statistics	
Normal Distribution Test	relevant oc	Lognormal Distribution Test	and Port Mills of Constitution Principles
Shapiro Wilk Test Statistic	0.294	Shapiro Wilk Test Statistic	0.423
Shapiro Wilk Critical Value	0.294	Shapiro Wilk Critical Value	0.423
	0.923	·	0.923
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
A			***************************************
Assuming Normal Distribution	10005	Assuming Lognormal Distribution	0.00705
95% Student's-t UCL	6.1230E-4	95% H-UCL	
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	3.1099E-
95% Adjusted-CLT UCL	7.7447E-4	97.5% Chebyshev (MVUE) UCL	3.7949E-
95% Modified-t UCL	6.3931E-4	99% Chebyshev (MVUE) UCL	5.1405E-
Gamma Distribution Test		Data Distribution	apar dan dan man defenda wat iku pan ban man defen
k star (bias corrected)	0.482	Data do not follow a Discernable Distribution (0.0)	51
Theta Star		Data do Not Ionow a Discernable Distribution (0.0	
and to the annual terretain and the second control of the second c	26.04		
nu star	<u>.</u>	No. 1 de Charles	
Approximate Chi Square Value (.05)	15.41	Nonparametric Statistics	0.0400=
Adjusted Level of Significance	0.0401	95% CLT UCL	
Adjusted Chi Square Value	14.89		6.1230E-
		95% Standard Bootstrap UCL	5.9026E-
Anderson-Darling Test Statistic	8.142	95% Bootstrap-t UCL	0.002
Anderson-Darling 5% Critical Value	0.806	95% Hail's Bootstrap UCL	0.002
Kolmogorov-Smirnov Test Statistic	0.527	95% Percentile Bootstrap UCL	6.4078E-
Kolmogorov-Smirnov 5% Critical Value	0.178	95% BCA Bootstrap UCL	9.0915E-
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.00
		97.5% Chebyshev(Mean, Sd) UCL	0.00
Assuming Gamma Distribution	.ž	99% Chebyshev(Mean, Sd) UCL	0.002
95% Approximate Gamma UCL	5.1377E-4		
95% Adjusted Gamma UCL	5.3182E-4		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.002
lesult or 1/2 SDL (n-propylbenzene)			
	General S		
Number of Valid Samples	83	Number of Unique Samples	57
Raw Statistics		Log-transformed Statistics	
Minimum	3.2000E-5	Minimum of Log Data	-10.35
	1		1

Mean	0.0237	Mean of log Data	-8.883
Median	6.6000E-5	SD of log Data	1.815
SD	0.198		
Coefficient of Variation	8.331		***************************************
Skewness	9.058		
	Relevant UC	CL Statistics	andre establishe may adopt to ballet a perteceste est
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.503	Lilliefors Test Statistic	0.353
Lilliefors Critical Value	0.0973		0.097
Data not Normal at 5% Significance Level	· Martin Mar	Data not Lognormal at 5% Significance Level	- 1417-1-1-1-1
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0598	95% H-UCL	0.001
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.001
95% Adjusted-CLT UCL	0.0825	97.5% Chebyshev (MVUE) UCL	0.001
95% Modified-t UCL	0.0634	99% Chebyshev (MVUE) UCL	0.002
Gamma Distribution Test		Data Distribution	name and the second
k star (bias corrected)	0.152	Data do not follow a Discernable Distribution (0.05)	1
Theta Star	0.152	Date do not lollow a Discernable Distribution (0.00)	<i>;</i>
nu star	25.26		
Approximate Chi Square Value (.05)	14.81	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.059
Adjusted Chi Square Value	14.67	95% Jackknife UCL	0.059
Adjusted Offi Square Value	14.07	95% Standard Bootstrap UCL	0.059
Anderson-Darling Test Statistic	25.64	95% Bootstrap -t UCL	1.155
Anderson-Darling 5% Critical Value	0.958	95% Hall's Bootstrap UCL	1.125
Kolmogorov-Smirnov Test Statistic	0.434	95% Percentile Bootstrap UCL	0.067
Kolmogorov-Smirnov 5% Critical Value	0.434	95% BCA Bootstrap UCL	0.007
Data not Gamma Distributed at 5% Significance Le	1	95% Chebyshev(Mean, Sd) UCL	0.118
Data not Cannina Distributed at 5% Significance Le	YGI	97.5% Chebyshev(Mean, Sd) UCL	0.159
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.100
95% Approximate Gamma UCL	0.0405	33% Offebyshev(Wear), Ody Ool	0.24
95% Adjusted Gamma UCL	0.0409		enanduranuranya hi
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.159
Result or 1/2 SDL (o-xylene)			anna quanta dinta mad
	General S		
Number of Valid Samples	83	Number of Unique Samples	71
Raw Statistics	##	Log-transformed Statistics	19-14-14-1-1-1-14-14-14-14-14-14-14-14-14-
Minimum	4.0000E-5	Minimum of Log Data	-10.13
Maximum	0.84	Maximum of Log Data	-0.174
Mean	0.0132	Mean of log Data	-8.136
Median	9.5000E-5	SD of log Data	1.904
SD	0.0931		
Coefficient of Variation	7.053		
Skewness	8.784		

	Relevant UCL	Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.476	Lilliefors Test Statistic	0.
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0302	95% H-UCL	0.
95% UCLs (Adjusted for Skewness)	1 0.0002	95% Chebyshev (MVUE) UCL	0.
95% Adjusted-CLT UCL	0.0405	97.5% Chebyshev (MVUE) UCL	0
95% Modified-t UCL	0.0318	99% Chebyshev (MVUE) UCL	0
	1		
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.195	Data do not follow a Discernable Distribution (0.05))
Theta Star	0.0676		
nu star	32.4		
Approximate Chi Square Value (.05)	20.39	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0
Adjusted Chi Square Value	20.22	95% Jackknife UCL	0
		95% Standard Bootstrap UCL	0
Anderson-Darling Test Statistic	18.03	95% Bootstrap-t UCL	0
Anderson-Darling 5% Critical Value	0.916	95% Hall's Bootstrap UCL	0
Kolmogorov-Smirnov Test Statistic	0.354	95% Percentile Bootstrap UCL	0
Kolmogorov-Smirnov 5% Critical Value	0.109	95% BCA Bootstrap UCL	0
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0
		97.5% Chebyshev(Mean, Sd) UCL	0
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0
95% Approximate Gamma UCL	0.021		
95% Adjusted Gamma UCL	0.0211		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0
ult or 1/2 SDL (pentachlorobiphenyl (101))			
	General St	atistics	-
Number of Valid Samples	27	Number of Unique Samples	22
Raw Statistics		Log-transformed Statistics	
Minimum	9.8500E-5	Minimum of Log Data	-9.2
Maximum	0.0445	Maximum of Log Data	-3.
Mean	0.0024	Mean of log Data	-8.2
Median	1.0650E-4	SD of log Data	1
SD	0.0088		
Coefficient of Variation	3.661		
Skewness	4.618		
	Relevant UCL	Statistics	
Normal Distribution Test	.C.CVAIR OCL	Lognormal Distribution Test	
	1	-canonial bloatbatton 1000	
Shapiro Wilk Test Statistic	0.292	Shapiro Wilk Test Statistic	0.

Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0052	95% H-UCL	0.00
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.00
95% Adjusted-CLT UCL	0.0068	97.5% Chebyshev (MVUE) UCL	0.00
95% Modified-t UCL	0.0055	99% Chebyshev (MVUE) UCL	0.00
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.298	Data do not follow a Discernable Distribution (0.05)
Theta Star	0.0080		,
nu star	16.11		
Approximate Chi Square Value (.05)	8.038	Nonparametric Statistics	
Adjusted Level of Significance	0.0401	95% CLT UCL	0.00
Adjusted Chi Square Value	7.674	95% Jackknife UCL	0.00
Aujusteu Offi Oquale Value	7.074	95% Standard Bootstrap UCL	0.00
Anderson-Darling Test Statistic	5.88		0.00
		95% Bootstrap-t UCL	
Anderson-Darling 5% Critical Value	0.851	95% Hall's Bootstrap UCL	0.03
Kolmogorov-Smirnov Test Statistic	0.348	95% Percentile Bootstrap UCL	0.00
Kolmogorov-Smirnov 5% Critical Value	0.183	95% BCA Bootstrap UCL	0.00
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.00
		97.5% Chebyshev(Mean, Sd) UCL	0.01
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.01
95% Approximate Gamma UCL	0.0048		
95% Adjusted Gamma UCL	0.0050		
· · · · · · · · · · · · · · · · · · ·	i ,		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.01
Potential UCL to Use ult or 1/2 SDL (pentachlorobiphenyl (105))		Use 99% Chebyshev (Mean, Sd) UCL	0.01
	General S		0.01
	General S		20
ult or 1/2 SDL (pentachlorobiphenyl (105))		tatistics	
ult or 1/2 SDL (pentachlorobiphenyl (105)) Number of Valid Samples Raw Statistics		tatistics Number of Unique Samples	
ult or 1/2 SDL (pentachlorobiphenyl (105)) Number of Valid Samples Raw Statistics	27	tatistics Number of Unique Samples Log-transformed Statistics	20
ult or 1/2 SDL (pentachlorobiphenyl (105)) Number of Valid Samples Raw Statistics Minimum Maximum	27 8.5500E-5	tatistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data	-9.367
ult or 1/2 SDL (pentachlorobiphenyl (105)) Number of Valid Samples Raw Statistics Minimum Maximum Mean	8.5500E-5 0.0149	tatistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-9.367 -4.206 -8.953
ult or 1/2 SDL (pentachlorobiphenyl (105)) Number of Valid Samples Raw Statistics Minimum Maximum Mean	8.5500E-5 0.0149 6.7935E-4	tatistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-9.367 -4.206
ult or 1/2 SDL (pentachlorobiphenyl (105)) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	8.5500E-5 0.0149 6.7935E-4 9.5000E-5	tatistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-9.367 -4.206 -8.953
ult or 1/2 SDL (pentachlorobiphenyl (105)) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	8.5500E-5 0.0149 6.7935E-4 9.5000E-5 0.0028	tatistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-9.367 -4.206 -8.953
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	8.5500E-5 0.0149 6.7935E-4 9.5000E-5 0.0028 4.189	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-9.367 -4.200 -8.953
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	8.5500E-5 0.0149 6.7935E-4 9.5000E-5 0.0028 4.189 5.174	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-9.367 -4.206 -8.953
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	8.5500E-5 0.0149 6.7935E-4 9.5000E-5 0.0028 4.189 5.174	Log-transformed Statistics Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test	20 -9.367 -4.206 -8.953 1.06
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic	8.5500E-5 0.0149 6.7935E-4 9.5000E-5 0.0028 4.189 5.174 Relevant UCI	tatistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic	-9.367 -4.206 -8.953 1.06
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	8.5500E-5 0.0149 6.7935E-4 9.5000E-5 0.0028 4.189 5.174	Log-transformed Statistics Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test	-9.367 -4.206 -8.953 1.06
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	8.5500E-5 0.0149 6.7935E-4 9.5000E-5 0.0028 4.189 5.174 Relevant UCI	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	-9.367 -4.206 -8.953 1.06
Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	8.5500E-5 0.0149 6.7935E-4 9.5000E-5 0.0028 4.189 5.174 Relevant UCI	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	20 -9.367 -4.206 -8.953 1.06

A THE BUILDING THE STATE OF THE			
95% Adjusted-CLT UCL	0.0021	97.5% Chebyshev (MVUE) UCL	5.4673E-4
95% Modified-t UCL	0.0017	99% Chebyshev (MVUE) UCL	7.4014E-4
Gamma Distribution Test	·	Data Distribution	
k star (bias corrected)	0.378	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.0018		
nu star	20.4		
Approximate Chi Square Value (.05)	11.15	Nonparametric Statistics	
Adjusted Level of Significance	0.0401	95% CLT UCL	0.001
Adjusted Chi Square Value	10.71	95% Jackknife UCL	0.001
		95% Standard Bootstrap UCL	0.001
Anderson-Darling Test Statistic	8.853	95% Bootstrap-t UCL	0.035
Anderson-Darling 5% Critical Value	0.831	95% Hall's Bootstrap UCL	0.034
Kolmogorov-Smirnov Test Statistic	0.522	95% Percentile Bootstrap UCL	0.001
Kolmogorov-Smirnov 5% Critical Value	0.18	95% BCA Bootstrap UCL	0.002
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.003
		97.5% Chebyshev(Mean, Sd) UCL	0.004
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.006
95% Approximate Gamma UCL	0.0012		
95% Adjusted Gamma UCL	0.0012		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.006
ult or 1/2 SDL (pentachlorobiphenyl (118))	General S		
ult or 1/2 SDL (pentachlorobiphenyl (118)) Number of Valid Samples	General S	Statistics Number of Unique Samples	24
			24
Number of Valid Samples Raw Statistics		Number of Unique Samples	24 -8.867
Number of Valid Samples Raw Statistics	27	Number of Unique Samples Log-transformed Statistics	
Number of Valid Samples Raw Statistics Minimum	27 1.4100E-4	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	-8.867
Number of Valid Samples Raw Statistics Minimum Maximum	1.4100E-4 0.0363	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-8.867 -3.316 -8.275
Number of Valid Samples Raw Statistics Minimum Maximum Mean	27 1.4100E-4 0.0363 0.0016	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-8.867 -3.316 -8.275
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	1.4100E-4 0.0363 0.0016 1.5900E-4	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-8.867 -3.316 -8.275
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	1.4100E-4 0.0363 0.0016 1.5900E-4 0.0069	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-8.867 -3.316 -8.275
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	1.4100E-4 0.0363 0.0016 1.5900E-4 0.0069 4.326	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-8.867 -3.316 -8.275
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	1.4100E-4 0.0363 0.0016 1.5900E-4 0.0069 4.326 5.184	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-8.867 -3.316
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	1.4100E-4 0.0363 0.0016 1.5900E-4 0.0069 4.326 5.184	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-8.867 -3.316 -8.275
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	1.4100E-4 0.0363 0.0016 1.5900E-4 0.0069 4.326 5.184	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test	-8.867 -3.316 -8.275 1.154
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic	1.4100E-4 0.0363 0.0016 1.5900E-4 0.0069 4.326 5.184 Relevant UC	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic	-8.867 -3.316 -8.275 1.154
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	1.4100E-4 0.0363 0.0016 1.5900E-4 0.0069 4.326 5.184 Relevant UC	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	-8.867 -3.316 -8.275 1.154
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	27 1.4100E-4 0.0363 0.0016 1.5900E-4 0.0069 4.326 5.184 Relevant UC 0.218 0.923	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution	-8.867 -3.316 -8.275 1.154 0.520 0.923
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	1.4100E-4 0.0363 0.0016 1.5900E-4 0.0069 4.326 5.184 Relevant UC	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	-8.867 -3.316 -8.275 1.154 0.526 0.923
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	27 1.4100E-4 0.0363 0.0016 1.5900E-4 0.0069 4.326 5.184 Relevant UCI 0.218 0.923	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	-8.867 -3.316 -8.275 1.154 0.526 0.923 9.1008E- 0.00°
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	1.4100E-4 0.0363 0.0016 1.5900E-4 0.0069 4.326 5.184 Relevant UC 0.218 0.923	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-8.867 -3.316 -8.275 1.154 0.526 0.923 9.1008E- 0.000
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	27 1.4100E-4 0.0363 0.0016 1.5900E-4 0.0069 4.326 5.184 Relevant UCI 0.218 0.923	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	-8.867 -3.316 -8.275 1.154 0.520 0.923 9.1008E- 0.000
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	1.4100E-4 0.0363 0.0016 1.5900E-4 0.0069 4.326 5.184 Relevant UC 0.218 0.923	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-8.867 -3.316 -8.275 1.154 0.526 0.923

Theta Star	0.0046		
nu star	18.77		
Approximate Chi Square Value (.05)	9.953	Nonparametric Statistics	
Adjusted Level of Significance	0.0401	95% CLT UCL	0.0038
Adjusted Chi Square Value	9.542	95% Jackknife UCL	0.0038
		95% Standard Bootstrap UCL	0.0037
Anderson-Darling Test Statistic	7.604	95% Bootstrap-t UCL	0.0662
Anderson-Darling 5% Critical Value	0.839	95% Hall's Bootstrap UCL	0.0422
Kolmogorov-Smirnov Test Statistic	0.401	95% Percentile Bootstrap UCL	0.0042
Kolmogorov-Smirnov 5% Critical Value	0.181	95% BCA Bootstrap UCL	0.006
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.007
		97.5% Chebyshev(Mean, Sd) UCL	0.009
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.014
95% Approximate Gamma UCL	0.0030		
95% Adjusted Gamma UCL	0.0031	·	
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.0149
Result or 1/2 SDL (pentachlorobiphenyl (87))			
	General S	Statistics	in a randing diplomatic
Number of Valid Samples	27	Number of Unique Samples	23
Raw Statistics		Log-transformed Statistics	kraal ned residencide red as belon kind of comme
Minimum	1.1750E-4	Minimum of Log Data	-9.049
Maximum	0.0257	Maximum of Log Data	-3.661
Mean	0.0014	Mean of log Data	-8.363
Median	1.3200E-4	SD of log Data	1.31
SD	0.0050		erioris et alla reduction (di anno 1919), anno 1919
Coefficient of Variation	3.554		D. ST. C.
Skewness	4.689		
F	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.287	Shapiro Wilk Test Statistic	0.547
Shapiro Wilk Critical Value	0.923	Shapiro Wilk Critical Value	0.923
Data not Normal at 5% Significance Level	***************************************	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	mhanti Hinruttion in tribun
95% Student's-t UCL	0.0030	95% H-UCL	0.001
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.001
95% Adjusted-CLT UCL	0.0039	97.5% Chebyshev (MVUE) UCL	0.001
95% Modified-t UCL	0.0032		0.002
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0,353	Data do not follow a Discernable Distribution (0.05	<u> </u>
k star (bias corrected) Theta Star	0.0040	Data do not rollow a Discernable Distribution (0.05	1
nu star	19.06		
Approximate Chi Square Value (.05)	10.16	Nonparametric Statistics	or notice and the second of the second of
Adjusted Level of Significance	0.0401	95% CLT UCL	0.003
Adjusted Level of Digitification	; U.U4U I)	53 /6 CLT UCL	0.003

	4		
	44		
		95% Standard Bootstrap UCL	0.0030
Anderson-Darling Test Statistic	7.038	95% Bootstrap-t UCL	0.0322
Anderson-Darling 5% Critical Value	0.837	95% Hall's Bootstrap UCL	0.0278
Kolmogorov-Smirnov Test Statistic	0.408	95% Percentile Bootstrap UCL	0.0032
Kolmogorov-Smirnov 5% Critical Value	0.181	95% BCA Bootstrap UCL	0.0042
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.0056
		97.5% Chebyshev(Mean, Sd) UCL	0.0074
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0111
95% Approximate Gamma UCL	0.0026		
95% Adjusted Gamma UCL	0.0027		***************************************
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.0111
	4 +		(N-12-41-11) (1-40, (1) (1-4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
Result or 1/2 SDL (phenanthrene)			
	General S		
Number of Valid Samples	166	Number of Unique Samples	128
Raw Statistics		Log-transformed Statistics	
Minimum	0.0057	Minimum of Log Data	-5.159
Maximum	12.6	Maximum of Log Data	2.534
Mean	0.401	Mean of log Data	-3.001
Median	0.0421	SD of log Data	2.017
SD	1.228	3	***************************************
Coefficient of Variation	3.064		***************************************
Skewness	6.986		
F	Relevant UC	L Statistics	anne en la constanta de la cons
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.374	Lilliefors Test Statistic	0.185
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.0688
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	naka kata gata 15 ggalamin 18 lingung taun 100 dan dan
95% Student's-t UCL	0.559	95% H-UCL	0.628
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.776
95% Adjusted-CLT UCL	0.613	97.5% Chebyshev (MVUE) UCL	0.954
95% Modified-t UCL	0.567	99% Chebyshev (MVUE) UCL	1.302
Gamma Distribution Test		Data Distribution	
	0.204		1
k star (bias corrected)	0.324	Data do not follow a Discernable Distribution (0.05)
Theta Star	1.237		
nu star	107.6		
Approximate Chi Square Value (.05)	84.65	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	0.558
Adjusted Chi Square Value	84.47	95% Jackknife UCL	0.559
		95% Standard Bootstrap UCL	0.56
Anderson-Darling Test Statistic	12.32	95% Bootstrap-t UCL	0.677
Anderson-Darling 5% Critical Value	0.862	95% Hall's Bootstrap UCL	1.18
Kolmogorov-Smirnov Test Statistic	0.194	95% Percentile Bootstrap UCL	0.578
Kolmogorov-Smirnov 5% Critical Value	0.0784	95% BCA Bootstrap UCL	0.651

Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.816
		97.5% Chebyshev(Mean, Sd) UCL	0.996
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.349
95% Approximate Gamma UCL	0.51		
95% Adjusted Gamma UCL	0.511		***************************************
			WITCHES CHEMICING CO.
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	1.34
sult or 1/2 SDL (pyrene)			
	General St	atistics	
Number of Valid Samples	166	Number of Unique Samples	134
Raw Statistics		Log-transformed Statistics	
Minimum	0.0055	Minimum of Log Data	-5.194
Maximum	8.47	Maximum of Log Data	2.13
Mean	0.432	Mean of log Data	-2.891
Median	0.432	SD of log Data	2.02
SD	1.11	3D 01 log Data	2.02
Coefficient of Variation	2.57		
Skewness	4.384		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Orewiess	4.304		
	Relevant UCL		
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.35	Lilliefors Test Statistic	0.12
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.06
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	atatianti. 18
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.575	95% H-UCL	0.71
95% UCLs (Adjusted for Skewness)		, 95% Chebyshev (MVUE) UCL	0.88
95% Adjusted-CLT UCL	0.605	97.5% Chebyshev (MVUE) UCL	1.08
95% Modified-t UCL	0.58	99% Chebyshev (MVUE) UCL	1.48
Gamma Distribution Test		Data Distribution	and the Europe (1991) is to
k star (bias corrected)	0.329	Data do not follow a Discernable Distribution (0.05	<u>)</u>
Theta Star	1.314		
nu star	109.2		/
Approximate Chi Square Value (.05)	86.04	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	0.57
Adjusted Chi Square Value	85.87	95% Jackknife UCL	0.57
rajustou Oni Oquare Value	55.57	95% Standard Bootstrap UCL	0.57
Anderson-Darling Test Statistic	11.49	95% Bootstrap-t UCL	0.57
Anderson-Darling 7% Critical Value	0.861	95% Hall's Bootstrap UCL	0.61
Kolmogorov-Smirnov Test Statistic	0.861	95% Percentile Bootstrap UCL	0.57
Kolmogorov-Smirnov 1est Statistic Kolmogorov-Smirnov 5% Critical Value	0.188	95% BCA Bootstrap UCL	0.57
		-	
Data not Gamma Distributed at 5% Significance Le	vei	95% Chebyshev(Mean, Sd) UCL	0.80
Access - O D1 - 11 - 11		97.5% Chebyshev(Mean, Sd) UCL	0.97
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.29
95% Approximate Gamma UCL	0.548		**********************
95% Adjusted Gamma UCL	0.549		

Potential UCL to Use	1	Use 99% Chebyshev (Mean, Sd) UCL	1.29
	ra era gyri byr, syrnyr vygdi eus gyrigi, _s as _y a, sag		naganduring kaping independence
ult or 1/2 SDL (selenium)	and the wind the standard and a President		
	General	Statistics	
Number of Valid Samples	166	Number of Unique Samples	32
Raw Statistics	Too and the second second second second	Log-transformed Statistics	
Minimum	0.21	Minimum of Log Data	-1.56
Maximum	1.13	Maximum of Log Data	0.12
Mean	0.28	Mean of log Data	-1.31
Median	0.25	SD of log Data	0.2
SD	0.119	OD OI TO DE DELLO	
	ļ		
Coefficient of Variation Skewness	0.426 4.859		· · · · · · · · · · · · · · · · · · ·
Normal Distribution Test	Relevant UC	CL Statistics Lognormal Distribution Test	
Lilliefors Test Statistic	0.378	Lilliefors Test Statistic	0.3
Lilliefors Critical Value	0.0688		0.0
Data not Normal at 5% Significance Level	0.0000	Data not Lognormal at 5% Significance Level	0.0
Data not Normal at 5% digital cance Level		Data not cognomia at 3 % Significance Level	
Assuming Normal Distribution	adiud 1461 - a ant a 167 167 167 167 a 167 - 1686 ara agilagar a 1676 a	Assuming Lognormal Distribution	
95% Student's-t UCL	0.296	95% H-UCL (0.2
95% UCLs (Adjusted for Skewness)	[95% Chebyshev (MVUE) UCL	0.3
95% Adjusted-CLT UCL	0.299	97.5% Chebyshev (MVUE) UCL	0.3
95% Modified-t UCL	0.296	99% Chebyshev (MVUE) UCL	0.3
Gamma Distribution Test	•	Data Distribution	
k star (bias corrected)	10.6	Data do not follow a Discernable Distribution (0.05)
Theta Star	0.0265		
nu star	3518		wareness and and the Prince
Approximate Chi Square Value (.05)	3381	Nonparametric Statistics	um.nantambites
Adjusted Level of Significance	0.0486	95% CLT UCL	0.2
Adjusted Chi Square Value	3380	95% Jackknife UCL	0.2
		95% Standard Bootstrap UCL	0.2
Anderson-Darling Test Statistic	26.48	95% Bootstrap-t UCL	0.3
Anderson-Darling 5% Critical Value	0.751	95% Hall's Bootstrap UCL	0.3
Kolmogorov-Smirnov Test Statistic	0.351	95% Percentile Bootstrap UCL	0.2
Kolmogorov-Smirnov 5% Critical Value	0.0723		0.3
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.3
2000 Tot Gamma Distributed at 070 Significance Le		97.5% Chebyshev(Mean, Sd) UCL	0.3
Accuraing Commo Distribution			
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.3
95% Approximate Gamma UCL	0.292		
95% Adjusted Gamma UCL	0.292		und-neuros west
Petersial IIOI to III-		1100 050/ 04-2-4-71101	~ ~
Potential UCL to Use		Use 95% Student's-t UCL	0.2
		or 95% Modified-t UCL	0.2

	General S	tatiatiaa	
Number of Valid Samples	166	Number of Unique Samples	40
			alle des different arms is a finition of antiferent fo
Raw Statistics		Log-transformed Statistics	CALIFER THAT WAS THE TARREST THAT THE TARREST THE TARREST THE TARREST THAT THE TARREST THE TA
Minimum	0.0235	Minimum of Log Data	-3.751
Maximum	1.64	Maximum of Log Data	0.495
Mean	0.063	Mean of log Data	-3.356
Median	0.028	SD of log Data	0.716
SD	0.165		
Coefficient of Variation	2.624		
Skewness	7.044		
F	Relevant UCI	_ Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.441	Lilliefors Test Statistic	0.376
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.068
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	***************************************	Assuming Lognormal Distribution	summation dispersion
95% Student's-t UCL	0.0843	95% H-UCL	0.050
95% UCLs (Adjusted for Skewness)	0.00.10	95% Chebyshev (MVUE) UCL	0.057
95% Adjusted-CLT UCL	0.0916	97.5% Chebyshev (MVUE) UCL	0,062
95% Modified-t UCL	0.0854	99% Chebyshev (MVUE) UCL	0.072
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.964	Data do not follow a Discernable Distribution (0.05)	<u> </u>
Theta Star	0.0654	Data do not follow d Diodonia do Diodonia do Companyo	
nu star	320.2		
Approximate Chi Square Value (.05)	279.7	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	0.084
Adjusted Chi Square Value	279.4	95% Jackknife UCL	0.084
		95% Standard Bootstrap UCL	0.084
Anderson-Darling Test Statistic	42.85	95% Bootstrap-t UCL	0.104
Anderson-Darling 5% Critical Value	0.785	95% Hall's Bootstrap UCL	0.11
Kolmogorov-Smirnov Test Statistic	0.424	95% Percentile Bootstrap UCL	0.086
Kolmogorov-Smirnov 5% Critical Value	0.0746	95% BCA Bootstrap UCL	0.094
Data not Gamma Distributed at 5% Significance Lev	vel	95% Chebyshev(Mean, Sd) UCL	0.119
		97.5% Chebyshev(Mean, Sd) UCL	0.143
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.191
95% Approximate Gamma UCL	0.0721		
95% Adjusted Gamma UCL	0.0722		
Potential UCL to Use		. Use 95% Chebyshev (Mean, Sd) UCL	0.119
esult or 1/2 SDL (strontium)	and the state of t		
	and the control of th		
	General S		
Number of Valid Samples	166	Number of Unique Samples	151

Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SL Statistics Lognormal Distribution Test Lilliefors Test Statistic	2.803 6.382 4.107 0.59
Maximum of Log Data Mean of log Data SD of log Data CL Statistics Lognormal Distribution Test	6.382 4.107
Mean of log Data SD of log Data CL Statistics Lognormal Distribution Test	4.107
SD of log Data CL Statistics Lognormal Distribution Test	
CL Statistics Lognormal Distribution Test	
Lognormal Distribution Test	
Lognormal Distribution Test	
Lognormal Distribution Test	
Lognormal Distribution Test	
	0.138
Lilliefors Critical Value	0.0688
1	0.0000
Data not Lognormal at 5% Significance Level	
Assuming Lognormal Distribution	
	78.78
	87.8
	94.53
99% Chebyshev (MVUE) UCL	107.7
Data Distribution	
Data do not follow a Discernable Distribution (0.05))
Nonparametric Statistics	
95% CLT UCL	85.03
95% Jackknife UCL	85.08
95% Standard Bootstrap UCL	84.96
95% Bootstrap-t UCL	88.74
95% Hall's Bootstrap UCL	88.35
95% Percentile Bootstrap UCL	85.62
95% BCA Bootstrap UCL	87.31
95% Chebyshev(Mean, Sd) UCL	100.6
	111.4
99% Chebyshev(Mean, Sd) UCL	132.6
Use 95% Chebyshev (Mean, Sd) UCL	100.6
-	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05) Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL

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SD	0.0037	the second process of the second part of the second	
Coefficient of Variation	4.064	The state of the s	
Skewness	5.095		
	elevant UCL	Statistics	
Normal Distribution Test	elevant oct	Lognormal Distribution Test	and to specific description of the second of
Shapiro Wilk Test Statistic	0.245	Shapiro Wilk Test Statistic	0.554
Shapiro Wilk Critical Value	0.923	Shapiro Wilk Critical Value	0.923
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	E- 147 have allerings famouslike by the opposite page.

Assuming Normal Distribution	0.0004	Assuming Lognormal Distribution	C 0000F
95% Student's-t UCL	0.0021	95% H-UCL	
95% UCLs (Adjusted for Skewness)			7.0103E-
95% Adjusted-CLT UCL	0.0029		8.7638E-
95% Modified-t UCL	0.0023	99% Chebyshev (MVUE) UCL	0.001
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.326	Data do not follow a Discernable Distribution (0.05)
Theta Star	0.0028		wishion
nu star	17.61		
Approximate Chi Square Value (.05)	9.108	Nonparametric Statistics	
Adjusted Level of Significance	0.0401	95% CLT UCL	0.00
Adjusted Chi Square Value	8.718	95% Jackknife UCL	0.002
		95% Standard Bootstrap UCL	0.002
Anderson-Darling Test Statistic	7.003	95% Bootstrap-t UCL	0.025
Anderson-Darling 5% Critical Value	0.844	95% Hall's Bootstrap UCL	0.016
Kolmogorov-Smirnov Test Statistic	0.445	95% Percentile Bootstrap UCL	0.002
Kolmogorov-Smirnov 5% Critical Value	0.182	95% BCA Bootstrap UCL	0.003
Data not Gamma Distributed at 5% Significance Lev	/el	95% Chebyshev(Mean, Sd) UCL	0.00
		97.5% Chebyshev(Mean, Sd) UCL	0.00
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.008
95% Approximate Gamma UCL	0.0018		
95% Adjusted Gamma UCL	0.0018		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.008
sult or 1/2 SDL (tetrachlorobiphenyl (52))			
	General Sta	ntistics	
Number of Valid Samples	27	Number of Unique Samples	24
Raw Statistics		Log-transformed Statistics	manual designation of the
Minimum	9.9500E-5	Minimum of Log Data	-9.215
Maximum	0.0336	Maximum of Log Data	-3.393
Mean	0.0017	Mean of log Data	-8.357
and the state of t	1.1300E-4	SD of log Data	1.40
		OD OI TOU DATE	
	0 0065	1	
SD Coefficient of Variation	0.0065 3.771		······································

Relevant UCL Statistics

			on at the first of
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.274	Shapiro Wilk Test Statistic	0.632
Shapiro Wilk Critical Value	0.923	Shapiro Wilk Critical Value	0.923
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
			\$1
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0038		0.0014
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0014
95% Adjusted-CLT UCL	0.0050		0.0018
95% Modified-t UCL	0.0040	99% Chebyshev (MVUE) UCL	0.0025
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.326	Data do not follow a Discernable Distribution (0.05))
Theta Star	0.0053		response to the transfer of the second
nu star	17.59		
Approximate Chi Square Value (.05)	9.095	Nonparametric Statistics	
Adjusted Level of Significance	0.0401	95% CLT UCL	0.0037
Adjusted Chi Square Value	8.705	95% Jackknife UCL	0.0038
		95% Standard Bootstrap UCL	0.0037
Anderson-Darling Test Statistic	6.223	95% Bootstrap-t UCL	0.049
Anderson-Darling 5% Critical Value	0.844	95% Hall's Bootstrap UCL	0.0272
Kolmogorov-Smirnov Test Statistic	0.351	95% Percentile Bootstrap UCL	0.0041
Kolmogorov-Smirnov 5% Critical Value	0,182	95% BCA Bootstrap UCL	0.0059
Data not Gamma Distributed at 5% Significance Lev		95% Chebyshev(Mean, Sd) UCL	0.0072
3		97.5% Chebyshev(Mean, Sd) UCL	0.0095
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0142
95% Approximate Gamma UCL	0.0033	1	
95% Adjusted Gamma UCL	0.0034		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.0142
Result or 1/2 SDL (tin)			
	General S	Statistics	
Number of Valid Samples	166	Number of Unique Samples	57
Raw Statistics		Log-transformed Statistics	11911 O.A. (Amelical)
Minimum	0.23	Minimum of Log Data	-1.47
Maximum	6.48	Maximum of Log Data	1.869
Mean	0.43	Mean of log Data	-0.912
Median	0.010	SD of log Data	0.764
SD	0.868	SD 01 log Data	0.704
Coefficient of Variation	1.409		
Skewness	3.697		
	manane vas en		
	televant UC	L Statistics	
Normal Distribution Test	and a section of the	Lognormal Distribution Test	
Lilliefors Test Statistic	0.33	Lilliefors Test Statistic	0.34
Lilliefors Critical Value	0.0688		0.0688
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

			2.0
Assuming Normal Distribution		Assuming Lognormal Distribution	7 Species - New York
95% Student's-t UCL	0.727	95% H-UCL	0.605
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.693
95% Adjusted-CLT UCL	0.748	97.5% Chebyshev (MVUE) UCL	0.761
95% Modified-t UCL	0.731	99% Chebyshev (MVUE) UCL	0.894
Gamma Distribution Test		Data Distribution	undesken er dele unde fledelsken
k star (bias corrected)	1.292	Data do not follow a Discernable Distribution (0.05)	<u> </u>
Theta Star	0.477		,
nu star	428.9		and the state of t
Approximate Chi Square Value (.05)	381.9	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	0.727
Adjusted Chi Square Value	381.5	95% Jackknife UCL	0.727
, injusted on square relation	007.10	95% Standard Bootstrap UCL	0.727
Anderson-Darling Test Statistic	26.15	95% Bootstrap-t UCL	0.759
Anderson-Darling 5% Critical Value	0.776	95% Hall's Bootstrap UCL	0.758
Kolmogorov-Smirnov Test Statistic	0.352	95% Percentile Bootstrap UCL	0.73
Kolmogorov-Smirnov 5% Critical Value	0.0741	95% BCA Bootstrap UCL	0.751
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.91
		97.5% Chebyshev(Mean, Sd) UCL	1.037
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.286
95% Approximate Gamma UCL	0.692		
95% Adjusted Gamma UCL	0.693		Barryon in generalization of the planeters of
menuperantum distribution of the control of the con	0.000		handangani andahar baranga
		No.	
Potential UCL to Use Result or 1/2 SDL (titanium)		Use 95% Chebyshev (Mean, Sd) UCL	0.91
Potential UCL to Use Result or 1/2 SDL (titanium)	General S		0.91
	General S		0.91
Result or 1/2 SDL (titanium) Number of Valid Samples		Statistics Number of Unique Samples	
Result or 1/2 SDL (titanium) Number of Valid Samples Raw Statistics	166	Statistics Number of Unique Samples Log-transformed Statistics	114
Result or 1/2 SDL (titanium) Number of Valid Samples Raw Statistics Minimum	4.02	Statistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data	1.391
Result or 1/2 SDL (titanium) Number of Valid Samples Raw Statistics Minimum Maximum	4.02 645	Statistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	1.391 6.469
Result or 1/2 SDL (titanium) Number of Valid Samples Raw Statistics Minimum Maximum Mean	4.02 645 25.77	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	114 1.391 6.469 3.014
Result or 1/2 SDL (titanium) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	4.02 645 25.77	Statistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	1.391 6.469
Result or 1/2 SDL (titanium) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	4.02 645 25.77 19 50.15	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	114 1.391 6.469 3.014
Result or 1/2 SDL (titanium) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	4.02 645 25.77 19 50.15 1.946	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	114 1.391 6.469 3.014
Result or 1/2 SDL (titanium) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	4.02 645 25.77 19 50.15 1.946 11.61	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Mean of log Data SD of log Data	114 1.391 6.469 3.014
Result or 1/2 SDL (titanium) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	4.02 645 25.77 19 50.15 1.946	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Mean of log Data SD of log Data	114 1.391 6.469 3.014
Result or 1/2 SDL (titanium) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	4.02 645 25.77 19 50.15 1.946 11.61	Cog-transformed Statistics Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	114 1.391 6.469 3.014
Result or 1/2 SDL (titanium) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	4.02 645 25.77 19 50.15 1.946 11.61	Log-transformed Statistics Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test	1.391 6.469 3.014 0.484
Result or 1/2 SDL (titanium) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic	4.02 645 25.77 19 50.15 1.946 11.61	Citatistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test Lilliefors Test Statistic	1.391 6.469 3.014 0.484
Result or 1/2 SDL (titanium) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value	4.02 645 25.77 19 50.15 1.946 11.61	Log-transformed Statistics Log-transformed Statistics Minimum of Log Data Maximum of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value	1.391 6.469 3.014 0.484
Result or 1/2 SDL (titanium) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level	4.02 645 25.77 19 50.15 1.946 11.61	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level	1.391 6.469 3.014 0.484
Result or 1/2 SDL (titanium) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	4.02 645 25.77 19 50.15 1.946 11.61 Relevant UC	Etatistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution	1.391 6.469 3.014 0.484 0.177 0.0688
Result or 1/2 SDL (titanium) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	4.02 645 25.77 19 50.15 1.946 11.61 Relevant UC	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	1.391 6.469 3.014 0.484 0.177 0.0688

	3		
Gamma Distribution Test		Data Distribution	# 1917 PP 1917 PR 1918 PP 1918
k star (bias corrected)	2.243	Data do not follow a Discernable Distribution (0.05))
Theta Star	11.49		unner (
nu star	744.8		. (
Approximate Chi Square Value (.05)	682.5	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	32.17
Adjusted Chi Square Value	681.9	95% Jackknife UCL	32.21
	***************************************	95% Standard Bootstrap UCL	32.2
Anderson-Darling Test Statistic	6.024E+28	95% Bootstrap-t UCL	48.92
Anderson-Darling 5% Critical Value	0.764	95% Hall's Bootstrap UCL	55.9
Kolmogorov-Smirnov Test Statistic	0.272	95% Percentile Bootstrap UCL	33.3
Kolmogorov-Smirnov 5% Critical Value	0.0732	95% BCA Bootstrap UCL	37.62
Data not Gamma Distributed at 5% Significance Level	vel	95% Chebyshev(Mean, Sd) UCL	42.74
		97.5% Chebyshev(Mean, Sd) UCL	50.08
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	64.5
95% Approximate Gamma UCL	28.13		
95% Adjusted Gamma UCL	28.15		
Potential UCL to Use		Use 95% Student's-t UCL	32.2
		or 95% Modified-t UCL	32.8
	General Stat		
Number of Valid Samples	General Stat	istics Number of Unique Samples	80
Number of Valid Samples Raw Statistics		Number of Unique Samples	80
	83		80 -8.25
Raw Statistics	83	Number of Unique Samples Log-transformed Statistics	-8,25
Raw Statistics Minimum	83 2.6100E-4	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	-8.25 -2.24
Raw Statistics Minimum Maximum	2.6100E-4 0.106	Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-8.25 -2.24 -5.738
Raw Statistics Minimum Maximum Mean	2.6100E-4 0.106 0.0057	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-8.25 -2.24 -5.738
Raw Statistics Minimum Maximum Mean Median	2.6100E-4 0.106 0.0057 0.0036	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-8.25 -2.249 -5.738
Raw Statistics Minimum Maximum Mean Median SD	2.6100E-4 0.106 0.0057 0.0036 0.0117	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-8.25 -2.24 -5.738
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	2.6100E-4 0.106 0.0057 0.0036 0.0117 2.033 7.835	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	2.6100E-4 0.106 0.0057 0.0036 0.0117 2.033	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-8.25 -2.24 -5.738
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	2.6100E-4 0.106 0.0057 0.0036 0.0117 2.033 7.835	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-8.25 -2.24! -5.73i 1.08
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	2.6100E-4 0.106 0.0057 0.0036 0.0117 2.033 7.835	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test	-8.25 -2.249 -5.738
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Final Point Point Statistic Lilliefors Test Statistic	2.6100E-4 0.106 0.0057 0.0036 0.0117 2.033 7.835	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Statistics Lognormal Distribution Test Lilliefors Test Statistic	-8.25 -2.24! -5.73 1.08
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level	2.6100E-4 0.106 0.0057 0.0036 0.0117 2.033 7.835	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level	-8.25 -2.24! -5.73 1.08
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Final Mormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	83 2.6100E-4 0.106 0.0057 0.0036 0.0117 2.033 7.835 Relevant UCL S 0.351 0.0973	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SLatistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution	-8.25 -2.24! -5.73i 1.08 0.14 0.09
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	2.6100E-4 0.106 0.0057 0.0036 0.0117 2.033 7.835	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	-8.25 -2.24! -5.73i 1.08 0.14 0.09
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	83 2.6100E-4 0.106 0.0057 0.0036 0.0117 2.033 7.835 Relevant UCL S 0.351 0.0973	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SU of log Data SD of log Data Comportable Statistics Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-8.25 -2.24' -5.73' 1.00 0.1- 0.09
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Final Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	83 2.6100E-4 0.106 0.0057 0.0036 0.0117 2.033 7.835 Relevant UCL S 0.351 0.0973 0.0078	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SLatistics Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-8.25 -2.24 -5.73 1.00 0.14 0.09
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	83 2.6100E-4 0.106 0.0057 0.0036 0.0117 2.033 7.835 Relevant UCL S 0.351 0.0973	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SU of log Data SD of log Data Comportable Statistics Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-8,25 -2,24! -5,73; 1,00 0,14 0,09
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Final Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	83 2.6100E-4 0.106 0.0057 0.0036 0.0117 2.033 7.835 Relevant UCL S 0.351 0.0973 0.0078	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SLatistics Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-8.25 -2.24 -5.73 1.00 0.14 0.09
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL	83 2.6100E-4 0.106 0.0057 0.0036 0.0117 2.033 7.835 Relevant UCL S 0.351 0.0973 0.0078	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SU of	-8,25 -2,24! -5,73; 1,00 0,14 0,00 0,00 0,00

nu star	161.4		
Approximate Chi Square Value (.05)	133	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.007
Adjusted Chi Square Value	132.5	95% Jackknife UCL	0.007
	<u> </u>	95% Standard Bootstrap UCL	0.007
Anderson-Darling Test Statistic	2.348	95% Bootstrap-t UCL	0.011
Anderson-Darling 5% Critical Value	0.782	95% Hall's Bootstrap UCL	0.015
Kolmogorov-Smirnov Test Statistic	0.184	95% Percentile Bootstrap UCL	0.008
Kolmogorov-Smirnov 5% Critical Value	0.101	95% BCA Bootstrap UCL	0.009
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.01
		97.5% Chebyshev(Mean, Sd) UCL	0.013
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.018
95% Approximate Gamma UCL	0.0069		
95% Adjusted Gamma UCL	0.0069		
507/Aujacia Gariina 501			
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.013
esult or 1/2 SDL (total moisture)			
	General S	Statistics	nanana-erararan
Number of Valid Samples	4	Number of Unique Samples	4
Raw Statistics		Log-transformed Statistics	
Minimum	4.47	Minimum of Log Data	1.497
Maximum	7.34	Maximum of Log Data	1.993
Mean	5.813	Mean of log Data	1.742
Median	5.72	SD of log Data	0.22
SD	1.274	OD OF ROY DATE	U.LL
Coefficient of Variation	0.219		
Skewness	0.304		
			anne menten er kinne er gant et alla kilott
	Relevant UC	L Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.97	Shapiro Wilk Test Statistic	0.974
Shapiro Wilk Critical Value	0.748	Shapiro Wilk Critical Value	0.748
Data appear Normal at 5% Significance Level	W	Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution	and the state of t	Assuming Lognormal Distribution	
95% Student's-t UCL	7.312	95% H-UCL	8.384
95% UCLs (Adjusted for Skewness)	,.012	95% Chebyshev (MVUE) UCL	8.589
95% Adjusted-CLT UCL	6.964	97.5% Chebyshev (MVUE) UCL	9.79
95% Adjusted-CL1 OCL 95% Modified-t UCL	7.328	99% Chebyshev (MVUE) UCL	12.15
95% Modified-LUCE	7.320	99% Chebysnev (MVOE) UCL	12.15
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	7.11	Data appear Normal at 5% Significance Level	
Theta Star	0.817		uaran and desired all back
nu star	56.88		
Approximate Chi Square Value (.05)	40.55	Nonparametric Statistics	
Adjusted Level of Significance	N/A	95% CLT UCL	6.86
Adjusted Chi Square Value	N/A	95% Jackknife UCL	7.31
Adiaster Chi adiale value i			

Anderson-Darling Test Statistic	0.239	95% Bootstrap-t UCL	9.165
Anderson-Darling 5% Critical Value	0.657	95% Hall's Bootstrap UCL	8.868
Kolmogorov-Smirnov Test Statistic	0.223	95% Percentile Bootstrap UCL	6.785
Kolmogorov-Smirnov 5% Critical Value	0.394	95% BCA Bootstrap UCL	6.575
Data appear Gamma Distributed at 5% Significance I		95% Chebyshev(Mean, Sd) UCL	8.59
	-010,	97,5% Chebyshev(Mean, Sd) UCL	9.792
Assuming Gamma Distribution	-t	99% Chebyshev(Mean, Sd) UCL	12.15
95% Approximate Gamma UCL	8.154		
95% Adjusted Gamma UCL	N/A		Hala iga Mai ta agairet kista i el estibel e ese
Potential UCL to Use		Use 95% Student's-t UCL	7.312
Result or 1/2 SDL (trichloroethene)			
	General S	Statistics	
Number of Valid Samples	83	Number of Unique Samples	58
Raw Statistics	······································	Log-transformed Statistics	·
Minimum	4.0500E-5	Minimum of Log Data	-10.11
Maximum	0.034	Maximum of Log Data	-3.381
Mean	9.2984E-4	Mean of log Data	-8.979
Median	8.0500E-5	SD of log Data	1.34
SD	0.0039		
Coefficient of Variation	4.295		
Skewness	7.315		
F	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.47	Lilliefors Test Statistic	0.421
Lilliefors Critical Value	0.0973		0.097
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	a talagata, A.S. a susukapat (A.S. a talagata) and talagata (A.S. a talagata). Also a talagata	Assuming Lognormal Distribution	THE PROPERTY OF THE PARTY OF TH
95% Student's-t UCL	0.0016	95% H-UCL	4.5311E-4
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	5.5915E-4
95% Adjusted-CLT UCL	0.0020	97.5% Chebyshev (MVUE) UCL	6.6982E-4
95% Modified-t UCL	0.0017	99% Chebyshev (MVUE) UCL	8.8721E-4
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.334	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	0.0027		
nu star	55.48		management of the province of the state of t
Approximate Chi Square Value (.05)	39.36	Nonparametric Statistics	The second secon
Adjusted Level of Significance	0.0471	` 95% CLT UCL	0.001
Adjusted Chi Square Value	39.12	95% Jackknife UCL	0.001
		95% Standard Bootstrap UCL	0.001
Anderson-Darling Test Statistic	23.85	95% Bootstrap-t UCL	0.003
Anderson-Darling 5% Critical Value	0.857	95% Hall's Bootstrap UCL	0.004
Kolmogorov-Smirnov Test Statistic	0.492	95% Percentile Bootstrap UCL	0.001
Kolmogorov-Smirnov 5% Critical Value	0.106	95% BCA Bootstrap UCL	0.002
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.002

d) UCL d) UCL d) UCL	0.0036 0.0052 0.0036
a) UCL	0.0036
amples	117
amples	447
amples	117
	117
des	have a second
g Data	1.554
g Data	3.82
g Data	2.588
og Data	0.406

Statistic	0.050
l Value	0.068
ce Level	
 N	
H-UCL	15.27
E) UCL	16.5
E) UCL	17.39
E) UCL	19.14
in the second control of the second control	arang na kambang kalawata tara
ficance Le	evel
LTUCL	15.16
fe UCL	15.16
ip UCL	15.16
o-t UCL	15.19
ap UCL	15.26
ap UCL	15.16
ap UCL	15.19
d) UCL	16.4
J) UCL	17.27
d) UCL	18.96
	and the same benefit the same the same
	g Data og Data

Potential UCL to Use		Use 95% Approximate Gamma UCL	15.17
ult or 1/2 SDL (xylene (total))			
about the state of	General Sta	tistics	. M. samannasannas ar ar artrado .
Number of Valid Samples	83	Number of Unique Samples	77
Raw Statistics	2000	Log-transformed Statistics	man bahasal mengherapat bahapatan d
Minimun	n 1.3050E-4	Minimum of Log Data	-8.94
Maximun	n 3.4	Maximum of Log Data	1.22
Meal	n 0.0479	Mean of log Data	-6.55
Media	n 0.0014	SD of log Data	1.68
SI	D 0.374		
Coefficient of Variation	n 7.807		· NILLEN
Skewnes	s 9.027		
	Relevant UCL	Statistics	
Normal Distribution Test	AND THE RESERVE OF THE PARTY OF	Lognormal Distribution Test	
Lilliefors Test Statistic	c 0.472	Lilliefors Test Statistic	0.19
Lilliefors Critical Value	e 0.0973	Lilliefors Critical Value	0.0
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Assuming Normal Distribution		Assuming Lognormal Distribution	,
95% Student's-t UCL	0,116	95% H-UCL	0.0
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0
95% Adjusted-CLT UCL	_ 0.159	97.5% Chebyshev (MVUE) UCL	0.0
95% Modified-t UCL		99% Chebyshev (MVUE) UCL	0.0
Gamma Distribution Test		Data Distribution	angeleijkeren ivor ann da sefense.
k star (bias corrected)) 0.209	Data do not follow a Discernable Distribution (0.05)	
Theta Sta			
nu sta			
Approximate Chi Square Value (.05)	1	Nonparametric Statistics	or against the second
Adjusted Level of Significance	1 1	95% CLT UCL	0.1
Adjusted Chi Square Value	21.99	95% Jackknife UCL	0.1
		95% Standard Bootstrap UCL	0.1
Anderson-Darling Test Statistic	18.38	95% Bootstrap-t UCL	1.8
Anderson-Darling 5% Critical Value	0.907	95% Hall's Bootstrap UCL	1.3
Kolmogorov-Smirnov Test Statistic	0.399	95% Percentile Bootstrap UCL	0.1
Kolmogorov-Smirnov 5% Critical Value	0.108	95% BCA Bootstrap UCL	0.1
Data not Gamma Distributed at 5% Significance L	.evel	95% Chebyshev(Mean, Sd) UCL	0.2
		97.5% Chebyshev(Mean, Sd) UCL	0.3
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.4
95% Approximate Gamma UCL	. 0.0748		
95% Adjusted Gamma UCL	0.0754		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.3

	Canada	Chatation	
Number of Valid Operation	General		159
Number of Valid Samples	166	Number of Unique Samples	109
Raw Statistics	***************************************	Log-transformed Statistics	
, Minimum	6.17	Minimum of Log Data	1.82
Maximum	7650	Maximum of Log Data	8.942
Mean	433.8	Mean of log Data	5.141
Median	192.5	SD of log Data	1.438
SD	786.8		
Coefficient of Variation	1.814		######################################
· Skewness	5.977		
	Dolovont IIC	DL Statistics	***************************************
Normal Distribution Test	Relevant OC	Lognormal Distribution Test	
Lilliefors Test Statistic	0.293	Lilliefors Test Statistic	0.098
Lilliefors Critical Value	0.293		0.068
Data not Normal at 5% Significance Level	0.0000	Data not Lognormal at 5% Significance Level	0.000
Data not normal at 5 % diginicance Level		Data not cognomia at 0 % oignificance cover	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	534.8	95% H-UCL	640.1
95% UCLs (Adjusted for Skewness)	£	95% Chebyshev (MVUE) UCL	793.9
95% Adjusted-CLT UCL	564.5	97.5% Chebyshev (MVUE) UCL	932.2
95% Modified-t UCL	539.6	99% Chebyshev (MVUE) UCL	1204
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.647	Data do not follow a Discernable Distribution (0.05	
Theta Star	670.5	Data do not follow a Discernable Distribution (0.00	')
nu star	214.8		
Approximate Chi Square Value (.05)	181.9	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	articular ylas majassas samenteta in massas samenteta menteta massas in menteta da massas menteta menteta mass	534.3
Adjusted Chi Square Value	181.6	95% Jackknife UCL	534.8
Aujusteu Otti Squate Value	101.0	95% Standard Bootstrap UCL	533.1
Anderson-Darling Test Statistic	3.192	95% Bootstrap-t UCL	586.2
Anderson-Darling 7est Statistic	0.805	95% Hall's Bootstrap UCL	949.7
Kolmogorov-Smirnov Test Statistic	0.803	95% Percentile Bootstrap UCL	544.3
Kolmogorov-Smirnov 5% Critical Value	0.111	95% BCA Bootstrap UCL	573.3
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	700
Data not dannia Distributed at 3% Significance Le	YGI	97.5% Chebyshev(Mean, Sd) UCL	815.2
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1041
95% Approximate Gamma UCL	512.3	3373 Gilosystia (modify GOL	
95% Adjusted Gamma UCL	512.3		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	815.2
FOREITHAI OCL TO USE		Use 97.3% Chebyshev (Mean, Su) UCL	013.2

APPENDIX A-3

NORTH OF MARLIN SURFACE SOIL

	General UCL Statistics	for Full Data	Sets	
User Selected Options		Manager and the state of the st		
From File	J:\1352 - Gulfco Rl\risk\	eco\Tables fo	or Revisited SLERA\surface soil N or Marlin aug 2008.wst	
Full Precision	OFF			
Confidence Coefficient	95%			
umber of Bootstrap Operations	2000	***************************************		
A CONTRACTOR OF THE CONTRACTOR				7 - h h q
esult or 1/2 DL (2-methylnaphtha	lene)			· · · · · · · · · · · · · · · · · · ·
		General Sta	atictice	,
Nur	nber of Valid Samples	18	Number of Unique Samples	15
Raw Sta			Log-transformed Statistics	
ындаг (ж. 17-жылын тары Адар (уулын тары) жүү үүн тарын тарында карын тары тары тары тары тары тары тары тары	Minimum	0.005	Minimum of Log Data	-5.298
ogalistic signification of the control of the contr	Maximum	0.053	Maximum of Log Data	-2.937
A CONTRACTOR OF THE CONTRACTOR	Mean	0.0123	Mean of log Data	-4.7 95
	Median	0.0059	SD of log Data	0.772
	SD	0.0148		
	Coefficient of Variation	1.21		
	Skewness	2.182		
	·	elevant UCL	Statistics	
Normal Distri	bution Test		Lognormal Distribution Test	H-W-11
Sha _l	oiro Wilk Test Statistic	0.528	Shapiro Wilk Test Statistic	0.605
Shap	oiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5%	Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Norm	al Distribution		Assuming Lognormal Distribution	
	95% Student's-t UCL	0.0184	95% H-UCL	0.017
95% UCLs (Adjust			95% Chebyshev (MVUE) UCL	0.020
` · ·	% Adjusted-CLT UCL	0.02	97.5% Chebyshev (MVUE) UCL	0.024
	95% Modified-t UCL	0.0187	99% Chebyshev (MVUE) UCL	0.032
Gamma Distr	bution Tost		Data Distribution	
	k star (bias corrected)	1.211	Data do not follow a Discernable Distribution (0.05	·
	Theta Star	0.0101	Data do not loitow a Disconnable Distribution (c.co.	<i></i>
	nu star	43.61		
		29.47	Nonnovootrio Stotiation	***************************************
• * *	hi Square Value (.05) I Level of Significance		Nonparametric Statistics 95% CLT UCL	0.018
		0.0357		0.018
Adjus	ted Chi Square Value	28.35	95% Jackknife UCL	
		0017	95% Standard Bootstrap UCL	0.017
· · · · · · · · · · · · · · · · · · ·	-Darling Test Statistic	3.817	95% Bootstrap-t UCL	0.024
	ling 5% Critical Value	0.758	95% Hall's Bootstrap UCL	0.017
	Smirnov Test Statistic	0.442	95% Percentile Bootstrap UCL	0.018
	nov 5% Critical Value	0.208	95% BCA Bootstrap UCL	0.020
Data not Gamma Distributed	at 5% Significance Lev	/el	95% Chebyshev(Mean, Sd) UCL	0.027
			97.5% Chebyshev(Mean, Sd) UCL	0.034
Assuming Gamn			99% Chebyshev(Mean, Sd) UCL	0.047
95% Appr	oximate Gamma UCL	0.0182		
95% /	Adjusted Gamma UCL	0.0189		

Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.02
sult or 1/2 DL (4,4'-dde)			,
	General Sta		
Number of Valid Samples	18	Number of Unique Samples	16
Raw Statistics		Log-transformed Statistics	dere angel per er e
	1.9150E-4	Minimum of Log Data	-8.561
Maximum		Maximum of Log Data	-4.206
Mean		Mean of log Data	-8.002
Median	2.1175E-4	SD of log Data	1.16
SD	0.0034		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Coefficient of Variation	2.898		
Skewness	4.099		
	Relevant UCL	Statistics	
Normal Distribution Test		Lognormal Distribution Test	4,0-1
Shapiro Wilk Test Statistic	0.324	Shapiro Wilk Test Statistic	0.52
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.89
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	***************************************
95% Student's-t UCL	0.0026	95% H-UCL	0.00
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.00
95% Adjusted-CLT UCL	0.0033	97.5% Chebyshev (MVUE) UCL	0.00
95% Modified-t UCL	0.0027	99% Chebyshev (MVUE) UCL	0.00
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.454	Data do not follow a Discernable Distribution (0.05))
Theta Star			
nu star	16.33		
Approximate Chi Square Value (.05)	8.194	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	0.00
Adjusted Chi Square Value	7.645	95% Jackknife UCL	0.00
		95% Standard Bootstrap UCL	0.00
Anderson-Darling Test Statistic	4.607	95% Bootstrap-t UCL	0.01
Anderson-Darling 5% Critical Value	0.8	95% Hall's Bootstrap UCL	0.01
Kolmogorov-Smirnov Test Statistic	0.483	95% Percentile Bootstrap UCL	0.00
Kolmogorov-Smirnov 5% Critical Value	0.215	95% BCA Bootstrap UCL	0.00
Data not Gamma Distributed at 5% Significance Le	∍vel	95% Chebyshev(Mean, Sd) UCL	0.00
		97.5% Chebyshev(Mean, Sd) UCL	0.00
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.00
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.0023		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.00

	General	Statistics	
Number of Valid Samples	18	Number of Unique Samples	16
Raw Statistics		Log-transformed Statistics	
Minimum	7.4000E-5	Minimum of Log Data	-9.511
Maximum	0.0108	Maximum of Log Data	-4.528
Mean	0.0012	Mean of log Data	-7.956
Median	2.7225E-4	SD of log Data	1.604
SD	0.0026		
Coefficient of Variation	2.045	Y The state of the	
Skewness	3.311		
	2-1	CL Statistics	
Normal Distribution Test	relevant oc	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.51	Shapiro Wilk Test Statistic	0.856
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Test Statistic	0.897
Data not Normal at 5% Significance Level	0.697	Data not Lognormal at 5% Significance Level	0.697
Data not normal at the Origination Color	and the state of some temperature of the state of the sta	Data not Englishman at 5% digitilitating Level	ergegeneggenengeben ikkeir zett stradigi
Assuming Normal Distribution		Assuming Lognormal Distribution	**************
95% Student's-t UCL	0.0023	95% H-UCL	0.005
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.003
95% Adjusted-CLT UCL	0.0027	97.5% Chebyshev (MVUE) UCL	0.004
95% Modified-t UCL	0.0024	99% Chebyshev (MVUE) UCL	0.006
Gamma Distribution Test	P18*1*11818248\$\$\data=2	Data Distribution	h- //- h h h
k star (bias corrected)	0.448	Data do not follow a Discernable Distribution (0.05	·
Theta Star	0.0028		
nu star	16.14		
Approximate Chi Square Value (.05)	8.064	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	0.002
Adjusted Chi Square Value	7.52	95% Jackknife UCL	0.002
		95% Standard Bootstrap UCL	0.002
Anderson-Darling Test Statistic	1.361	95% Bootstrap-t UCL	0.005
Anderson-Darling 5% Critical Value	0.801	95% Hall's Bootstrap UCL	0.006
Kolmogorov-Smirnov Test Statistic	0.238	95% Percentile Bootstrap UCL	0.002
Kolmogorov-Smirnov 5% Critical Value	0.215	95% BCA Bootstrap UCL	0.002
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.003
9		97.5% Chebyshev(Mean, Sd) UCL	0.005
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.007
95% Approximate Gamma UCL	0.0025		
95% Adjusted Gamma UCL	0.0027		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.007
esult or 1/2 DL (acenaphthene)			
	General S		
Number of Valid Samples	18	Number of Unique Samples	13
Raw Statistics		Log-transformed Statistics	and the same of th
Minimum	0.005	Minimum of Log Data	-5.298

	F. (18)		
Maximum	0.157	Maximum of Log Data	-1.852
Mean	0.0161	Mean of log Data	-4.856
Median	0.0055		0.897
SD	0.0358		armen ann an hairman litter och s
Coefficient of Variation	2.227		
Skewness	4.027		
Normal Distribution Test '	relevant UC	CL Statistics Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.344	Shapiro Wilk Test Statistic	0.518
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level	0.007	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0307	95% H-UCL	0.020
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.022
95% Adjusted-CLT UCL	0.0385	97.5% Chebyshev (MVUE) UCL	0.027
95% Modified-t UCL	0.0321	99% Chebyshev (MVUE) UCL	0.037
		Data Data di att	www.a/r-mhu/smist-sh-st
Gamma Distribution Test	0.717	Data Distribution	
k star (bias corrected)	0.717	Data do not follow a Discernable Distribution (0.05)
Theta Star	0.0224		
nu star	25.83		
Approximate Chi Square Value (.05)	15.25	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	0.029
Adjusted Chi Square Value	14.47	95% Jackknife UCL	0.030
		95% Standard Bootstrap UCL	0.029
Anderson-Darling Test Statistic	4.505	95% Bootstrap-t UCL	0.111
Anderson-Darling 5% Critical Value	0.775	95% Hall's Bootstrap UCL	0.114
Kolmogorov-Smirnov Test Statistic	0.479	95% Percentile Bootstrap UCL	0.032
Kolmogorov-Smirnov 5% Critical Value	0.211	95% BCA Bootstrap UCL	0.042
Data not Gamma Distributed at 5% Significance Leventre	vel	95% Chebyshev(Mean, Sd) UCL	0.052
		97.5% Chebyshev(Mean, Sd) UCL	0.068
Assuming Gamma Distribution	- white the country to the country to	99% Chebyshev(Mean, Sd) UCL	0.099
95% Approximate Gamma UCL	0.0272		A DESCRIPTION AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSO
95% Adjusted Gamma UCL	0.0287		P.M. (Proc. 10.00)
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.052
Result or 1/2 DL (acenaphthylene)			
	General S	Statistics	
Number of Valid Samples	18	Number of Unique Samples	15
D Ob. 1.	TO STATE OF THE ST		
Raw Statistics	0.000	Log-transformed Statistics	-5.562
Minimum	0.0038		
Maximum	0.0555		-2.891
Media	0.0099		-4.972
Median SD	0.0060	SD of log Data	0.693
	0.0131		***************************************
Coefficient of Variation	1.324		

Skewness	3.101		
	<u>[</u>		
I	Relevant UCL	Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.443	Shapiro Wilk Test Statistic	0.6
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.89
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	·····
95% Student's-t UCL	0.0153	95% H-UCL	0.0
95% UCLs (Adjusted for Skewness)	1	95% Chebyshev (MVUE) UCL	0.0
95% Adjusted-CLT UCL	0.0174	97.5% Chebyshev (MVUE) UCL	0.0
95% Modified-t UCL	0.0157	99% Chebyshev (MVUE) UCL	0.0
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.325	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.0074	Date do not foliow a Discernable Distribution (0.03)	
nu star	47.68		
Approximate Chi Square Value (.05)	32.83	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	0.0
Adjusted Chi Square Value	31.65	95% Jackknife UCL	0.0
Adjusted Off Square Value	31.03	95% Standard Bootstrap UCL	0.0
Anderson-Darling Test Statistic	3.815	95% Bootstrap-t UCL	0.0
Anderson-Darling 7est Statistic Anderson-Darling 5% Critical Value	0.756	95% Hall's Bootstrap UCL	0.0
	<u> </u>	, ,	
Kolmogorov-Smirnov Test Statistic	0.469	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.207	95% BCA Bootstrap UCL	0.0
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.0
		97.5% Chebyshev(Mean, Sd) UCL	0.0
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.0144 0.0149		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.0
sult or 1/2 DL (aluminum)	The second secon		
	General St	atistics	
Number of Valid Samples	18	Number of Unique Samples	17
Raw Statistics		Log-transformed Statistics	rajona i saranja Presi artendija
Minimum	1810	Minimum of Log Data	7.5
Maximum	16800	Maximum of Log Data	9.7
Mean	10673	Mean of log Data	9.1
Median	10300	SD of log Data	0.4
SD	3687		,
Coefficient of Variation Skewness	0.345 -0.368		
	1 0.000		
	Relevant UCL		
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.963	Shapiro Wilk Test Statistic	0.7

Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data appear Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	00,000,000,000,000,000,000,000,000,000
Assuming Normal Distribution		Assuming Lognormal Distribution	an transmission about the continue
95% Student's-t UCL	12185	95% H-UCL	14135
95% UCLs (Adjusted for Skewness)	12103	95% Chebyshev (MVUE) UCL	16791
95% OCLS (Adjusted for Skewness) 95% Adjusted-CLT UCL	12022	97.5% Chebyshev (MVUE) UCL	19299
95% Adjusted-CET OCE 95% Modified-t UCL	12172	99% Chebyshev (MVUE) UCL	24226
			y
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	5.015	Data appear Normal at 5% Significance Level	Period (\$1, 2009)
Theta Star	2128		
nu star	180.5		
Approximate Chi Square Value (.05)	150.5	Nonparametric Statistics	
Adjusted Level of Significance	0.0357		12103
Adjusted Chi Square Value	147.8	95% Jackknife UCL	12185
		95% Standard Bootstrap UCL	12068
Anderson-Darling Test Statistic	0.664	95% Bootstrap-t UCL	12127
Anderson-Darling 5% Critical Value	0.742	95% Hall's Bootstrap UCL	12096
Kolmogorov-Smirnov Test Statistic	0.162	95% Percentile Bootstrap UCL	12042
Kolmogorov-Smirnov 7est Statistic	0.102	95% BCA Bootstrap UCL	11983
			14461
Data appear Gamma Distributed at 5% Significance	Levei	95% Chebyshev(Mean, Sd) UCL	
		97.5% Chebyshev(Mean, Sd) UCL	16100
Assuming Gamma Distribution	·	99% Chebyshev(Mean, Sd) UCL	19319
95% Approximate Gamma UCL	12807		
95% Adjusted Gamma UCL	13035		· · · · · · · · · · · · · · · · · · ·
Potential UCL to Use	***************************************	Use 95% Student's-t UCL	12185
Result or 1/2 DL (anthracene)			
	General		
Number of Valid Samples	18	Number of Unique Samples	17
Raw Statistics		Log-transformed Statistics	
Minimum	0.0037	Minimum of Log Data	-5.594
Maximum	0.264	Maximum of Log Data	-1.332
Mean	0.0257	Mean of log Data	-4.612
Median	0.0061	SD of log Data	1.09
SD	0.0609		
Coefficient of Variation	2.366		ngris, falsa in lifegggin magala
Skewness	3.946		***************************************
Normal Distribution Test	Relevant UC	CL Statistics Lognormal Distribution Test	and the same of th
Shapiro Wilk Test Statistic	0.38	Shapiro Wilk Test Statistic	0.67
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.89
Data not Normal at 5% Significance Level	0.09/	Data not Lognormal at 5% Significance Level	0.08
			10.1 12.000 1 1 1 14.000 12.00 14.00 14.00 14.00 17.00 1
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0507	95% H-UCL	0.03

95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.038
95% Adjusted-CLT UCL	0.0636	97.5% Chebyshev (MVUE) UCL	0.048
95% Modified-t UCL	0.0529	99% Chebyshev (MVUE) UCL	0.066
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.573	Data do not follow a Discernable Distribution (0.05))
Theta Star	0.0449		
nu star	20.61	um municipality e mi ongre introduce money, menergh delland let dedunyani, meneng menerinang money del dellam de timb	
Approximate Chi Square Value (.05)	11.3	Nonparametric Statistics	Maydin internet in the constitution of the
Adjusted Level of Significance	0.0357	95% CLT UCL	0.04
Adjusted Chi Square Value	10.64	95% Jackknife UCL	0.05
		95% Standard Bootstrap UCL	0.04
Anderson-Darling Test Statistic	3.451	95% Bootstrap-t UCL	0.14
Anderson-Darling 5% Critical Value	0.787	95% Hall's Bootstrap UCL	0.12
Kolmogorov-Smirnov Test Statistic	0.402	95% Percentile Bootstrap UCL	0.05
Kolmogorov-Smirnov 5% Critical Value	0.213	95% BCA Bootstrap UCL	0.07
Data not Gamma Distributed at 5% Significance Lev	/el	95% Chebyshev(Mean, Sd) UCL	0.08
		97.5% Chebyshev(Mean, Sd) UCL	0.11
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.16
95% Approximate Gamma UCL	0.0469		
95% Adjusted Gamma UCL	0.0498		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.16
ult or 1/2 DL (antimony)	Ganaral Stat	lictics	
	General Stat		14
Number of Valid Samples	General Stat	tistics Number of Unique Samples	14
			14
Number of Valid Samples		Number of Unique Samples	
Number of Valid Samples Raw Statistics	18	Number of Unique Samples Log-transformed Statistics	-2.354
Number of Valid Samples Raw Statistics Minimum	0.095	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	-2.35 ⁴
Number of Valid Samples Raw Statistics Minimum Maximum	0.095	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-2.354 2.09 -0.535
Number of Valid Samples Raw Statistics Minimum Maximum Mean	0.095 8.09 1.744	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-2.354 2.09 -0.535
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	0.095 8.09 1.744 0.893	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-2.354 2.09 -0.535
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	0.095 8.09 1.744 0.893 2.146	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-2.354 2.09 -0.535
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.095 8.09 1.744 0.893 2.146 1.231	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-2.354 2.09 -0.535 1.72
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.095 8.09 1.744 0.893 2.146 1.231 1.659	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-2.354 2.09 -0.535
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.095 8.09 1.744 0.893 2.146 1.231 1.659	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test	-2.354 2.09 -0.535 1.72
Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic	0.095 8.09 1.744 0.893 2.146 1.231 1.659 elevant UCL \$\frac{1}{2}\$	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic	-2.354 2.09 -0.535 1.72
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.095 8.09 1.744 0.893 2.146 1.231 1.659	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test	-2.354 2.09 -0.535 1.72
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	0.095 8.09 1.744 0.893 2.146 1.231 1.659 elevant UCL S	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	-2.354 2.09 -0.535 1.72
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	0.095 8.09 1.744 0.893 2.146 1.231 1.659 elevant UCL S	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution	-2.354 2.09 -0.535 1.72 0.77 0.89
Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	0.095 8.09 1.744 0.893 2.146 1.231 1.659 elevant UCL S	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	-2.354 2.09 -0.535 1.72 0.77 0.89
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.095 8.09 1.744 0.893 2.146 1.231 1.659 elevant UCL S 0.768 0.897	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-2.354 2.09 -0.535 1.72 0.77 0.89
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	0.095 8.09 1.744 0.893 2.146 1.231 1.659 elevant UCL S 0.768 0.897 2.624 2.787	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-2.354 2.09 -0.535 1.72 0.77 0.89 12.83 6.75 8.73
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.095 8.09 1.744 0.893 2.146 1.231 1.659 elevant UCL S 0.768 0.897	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-2.35 ² 2.09 -0.53 ⁸ 1.72 0.77 0.89

	in the second		
k star (bias corrected)	0.512	Data do not follow a Discernable Distribution (0.05)
Theta Star	3.403		
nu star	18.45		
Approximate Chi Square Value (.05)	9.713	Nonparametric Statistics	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Adjusted Level of Significance	0.0357	95% CLT UCL	2.576
Adjusted Chi Square Value	9.109	95% Jackknife UCL	2.624
		95% Standard Bootstrap UCL	2.581
Anderson-Darling Test Statistic	1.671	95% Bootstrap-t UCL	3.048
Anderson-Darling 5% Critical Value	0.794	95% Hall's Bootstrap UCL	3.327
Kolmogorov-Smirnov Test Statistic	0.321	95% Percentile Bootstrap UCL	2.6
Kolmogorov-Smirnov 5% Critical Value	0.214	95% BCA Bootstrap UCL	2.801
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	3.949
		97.5% Chebyshev(Mean, Sd) UCL	4.903
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	6.777
95% Approximate Gamma UCL	3.311		
95% Adjusted Gamma UCL	3.531		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	6.777
Result or 1/2 DL (aroclor-1254)			
	General S	Statistics	
Number of Valid Samples	18	Number of Unique Samples	17
Raw Statistics		Log-transformed Statistics	
Minimum	0.0019	Minimum of Log Data	-6.258
Maximum	0.0155	Maximum of Log Data	-4.167
Mean	0.0037	Mean of log Data	-5.839
Median	0.0021	SD of log Data	0.633
SD	0.0038		
Coefficient of Variation	1.01		
Skewness	2.557		
	Relevant UC		
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.541	Shapiro Wilk Test Statistic	0.674
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level	gHHlenso-Har mito-bresites van	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0053	95% H-UCL	0.004
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.005
95% Adjusted-CLT UCL	0.0058	97.5% Chebyshev (MVUE) UCL	0.006
95% Modified-t UCL	0.0054	99% Chebyshev (MVUE) UCL	0.008
Gamma Distribution Test		Data Distribution	-4516
k star (bias corrected)	1.76	Data do not follow a Discernable Distribution (0.05)
Theta Star	0.0021		
nu star	63.37		
and definition of the suppression of the suppressio	<u> </u>		
Approximate Chi Square Value (.05)	46.06	Nonparametric Statistics	

Adjusted Chi Square Volue	44.64	95% Jackknife UCL	0.005
Adjusted Chi Square Value	44.64		
Andrew D. H. Tot Out I	0.054	95% Standard Bootstrap UCL	0.005
Anderson-Darling Test Statistic	2.954	95% Bootstrap-t UCL	0.009
Anderson-Darling 5% Critical Value	0.752	95% Hall's Bootstrap UCL	0.011
Kolmogorov-Smirnov Test Statistic	0.342	95% Percentile Bootstrap UCL	0.005
Kolmogorov-Smirnov 5% Critical Value	0.206	95% BCA Bootstrap UCL	0.005
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.007
	***************************************	97.5% Chebyshev(Mean, Sd) UCL	0.009
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.012
95% Approximate Gamma UCL	0.0052		****
95% Adjusted Gamma UCL	0.0053		
Potential UCL to Use	and the second s	Use 95% Chebyshev (Mean, Sd) UCL	0.007
sult or 1/2 DL (arsenic)			
	General S	Statistics	TIPAMININA TIPAMININA TIPAMI
Number of Valid Samples	18	Number of Unique Samples	17
Raw Statistics		Log-transformed Statistics	
Minimum	0.34	Minimum of Log Data	-1.079
Maximum	5.69	Maximum of Log Data	1.739
Mean	2,522	Mean of log Data	0.778
Median	2.525	SD of log Data	0.654
SD	1.164		
Coefficient of Variation	0.461		
Skewness	0.663		
		N. Ol-Carlan	
Normal Distribution Test	(elevant UC	CL Statistics Lognormal Distribution Test	
	0.004		0.77
Shapiro Wilk Test Statistic	0.904	Shapiro Wilk Test Statistic	0.773
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.89
Data appear Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	***************************************
95% Student's-t UCL	2.999	95% H-UCL	3.82
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	4.540
95% Adjusted-CLT UCL	3.019	97.5% Chebyshev (MVUE) UCL	5.362
95% Modified-t UCL	3.006	99% Chebyshev (MVUE) UCL	6.96
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	3	Data appear Normal at 5% Significance Level	
Theta Star	0.841		
nu star	108		
Approximate Chi Square Value (.05)	85.02	Nonparametric Statistics	v
Adjusted Level of Significance	0.0357	95% CLT UCL	2.97
Adjusted Chi Square Value	83.06	95% Jackknife UCL	2.99
	. 17 () 4 (4 (4 (4 (4 (4 (4 (4 (4 (95% Standard Bootstrap UCL	2.96
Anderson-Darling Test Statistic	1.238	95% Bootstrap-t UCL	3.06
Anderson-Darling 5% Critical Value	0.744	95% Hall's Bootstrap UCL	3.23
Kolmogorov-Smirnov Test Statistic	0,215	95% Percentile Bootstrap UCL	2.938

Kolmogorov-Smirnov 5% Critical Value	0.205	95% BCA Bootstrap UCL	2.979
Data not Gamma Distributed at 5% Significance Le		95% BCA BOOISITAP UCL 95% Chebyshev(Mean, Sd) UCL	3.718
Data not Gamma Distributed at 3% Significance Le	T T	97.5% Chebyshev(Mean, Sd) UCL	4.235
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	5.25
95% Approximate Gamma UCL	3,204	33 % Chebyshev (Mean, 30) OCL	3.23
95% Adjusted Gamma UCL	3.204		
33/8 Adjusted Gariffia OCL	3.20		ra vo kravi gozdani i i i i i i i i i i i i i i i i i i
Potential UCL to Use		Use 95% Student's-t UCL	2.999
esult or 1/2 DL (barium)			
	General St	atistics	
Number of Valid Samples	18	Number of Unique Samples	18
Raw Statistics		Log-transformed Statistics	
Minimum	46.1	Minimum of Log Data	3.83
Maximum	476	Maximum of Log Data	6.16
Mean	145.2	Mean of log Data	4.78
Median	114	SD of log Data	0.59
SD	115.8		
Coefficient of Variation	0.798		
Skewness	2.357		
Danapan virinina de acultata e constituir de acultata	Relevant UCL	Statistics	
Normal Distribution Test	<u> </u>	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.641	Shapiro Wilk Test Statistic	0.885
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.89
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	192.6	95% H-UCL	192.6
95% UCLs (Adjusted for Skewness)	132.0	95% Chebyshev (MVUE) UCL	229.8
95% Adjusted-CLT UCL	206.3	97.5% Chebyshev (MVUE) UCL	268.4
95% Modified-t UCL	195.2	99% Chebyshev (MVUE) UCL	344.2
Gamma Distribution Test		Data Distribution	***************************************
k star (bias corrected)	2.308	Data do not follow a Discernable Distribution (0.05)
Theta Star	62.88		
nu star	83.1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Approximate Chi Square Value (.05)	63.09	Nonparametric Statistics	**************************************
Adjusted Level of Significance	0.0357	95% CLT UCL	190.1
Adjusted Chi Square Value	61.42	95% Jackknife UCL	192.6
	· Parameter support	95% Standard Bootstrap UCL	188.9
Anderson-Darling Test Statistic	1.375	95% Bootstrap-t UCL	291.7
Anderson-Darling 5% Critical Value	0.748	95% Hall's Bootstrap UCL	491.8
Kolmogorov-Smirnov Test Statistic	0.275	95% Percentile Bootstrap UCL	192.6
Kolmogorov-Smirnov 5% Critical Value	0.205	95% BCA Bootstrap UCL	203.6
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	264.2
		97.5% Chebyshev(Mean, Sd) UCL	315.6
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	416.8
95% Approximate Gamma UCL	191.2		

95% Adjusted Gamma UCL	196.4	and the section of th	* ; :::::::::::::::::::::::::::::::::::
John Aujusted Gainnia GGE	130.7		18c s.E*1988114536411 + 1 E********************************
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	264.2
ult or 1/2 DL (benzo(a)anthracene)			
	General Stati	ilstics	
Number of Valid Samples	18	Number of Unique Samples	16
Raw Statistics	***************************************	Log-transformed Statistics	war and the statement of the statement o
Minimum	0.0025	Minimum of Log Data	-5.98
Maximum	1.18	Maximum of Log Data	0.1
Mean	0.0715	Mean of log Data	-4.97
Median	0.0055	SD of log Data	1.3
SD	0.277		
Coefficient of Variation	3.872		
Skewness	4.239		•11
L			**************************************
	Relevant UCL S		
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.264	Shapiro Wilk Test Statistic	0.5
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.8
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	.,
95% Student's-t UCL	0.185	95% H-UCL	0.0
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0
95% Adjusted-CLT UCL	0.248	97.5% Chebyshev (MVUE) UCL	0.0
95% Modified-t UCL	0.196	99% Chebyshev (MVUE) UCL	0.0
Gamma Distribution Test	and the same of th	Data Distribution	
k star (bias corrected)	0.284	Data do not follow a Discernable Distribution (0.05))
Theta Star	0.252		
nu star	10.21		
Approximate Chi Square Value (.05)	4.075	Nonparametric Statistics	produced to the Control
Adjusted Level of Significance	0.0357	95% CLT UCL	0.
Adjusted Chi Square Value	3.71	95% Jackknife UCL	0.
		95% Standard Bootstrap UCL	0.
Anderson-Darling Test Statistic	5.324	95% Bootstrap-t UCL	14.
Anderson-Darling 5% Critical Value	0.844	95% Hall's Bootstrap UCL	7.3
	0.52	95% Percentile Bootstrap UCL	0.2
Kolmogorov-Smirnov Test Statistic		95% BCA Bootstrap UCL	0.2
Kolmogorov-Smirnov 5% Critical Value	0.221		0.3
		95% Chebyshev(Mean, Sd) UCL	
Kolmogorov-Smirnov 5% Critical Value Data not Gamma Distributed at 5% Significance Lev		97.5% Chebyshev(Mean, Sd) UCL	0.4
Kolmogorov-Smirnov 5% Critical Value Data not Gamma Distributed at 5% Significance Lev Assuming Gamma Distribution	/el		0.4
Kolmogorov-Smirnov 5% Critical Value Data not Gamma Distributed at 5% Significance Lev Assuming Gamma Distribution 95% Approximate Gamma UCL	vel 0.179	97.5% Chebyshev(Mean, Sd) UCL	0.4
Kolmogorov-Smirnov 5% Critical Value Data not Gamma Distributed at 5% Significance Lev Assuming Gamma Distribution	/el	97.5% Chebyshev(Mean, Sd) UCL	0.4

	General S		
Number of Valid Samples	18	Number of Unique Samples	18
Raw Statistics		Log-transformed Statistics	. V. 674-144-17-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
Minimum	0.0045	Minimum of Log Data	-5.403
Maximum	1.42	Maximum of Log Data	0.351
Mean	0.114	Mean of log Data	-4.036
Median	0.0057	SD of log Data	1.734
SD	0.33	O O O O D CALL	
Coefficient of Variation	2.903		
Skewness	4.073		>t
		,	**************************************
	Relevant UC		
Normal Distribution Test		Lognormal Distribution Test	1944 - 1 41 1988
Shapiro Wilk Test Statistic	0.36	Shapiro Wilk Test Statistic	0.746
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.249	95% H-UCL	0.405
95% UCLs (Adjusted for Skewness)	0.2.10	95% Chebyshev (MVUE) UCL	0.209
95% Adjusted-CLT UCL	0.322	97.5% Chebyshev (MVUE) UCL	0.27
95% Modified-t UCL	0.262	99% Chebyshev (MVUE) UCL	0.391
Gamma Distribution Test		Data Distribution	71.411 H 1 H 1 H 1 H 1 H 1 H 1 H 1 H 1 H 1
k star (bias corrected)	0.337	Data do not follow a Discernable Distribution (0.05)	·······
Theta Star	0.337	Data do not follow a Discernable Distribution (0.00)	<i>,</i>
nu star	12.12		
Approximate Chi Square Value (.05)	5.306	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	0.242
Adjusted Chi Square Value	4.879	95% Jackknife UCL	0.249
Adjusted Offi Oquale Value	4.073	95% Standard Bootstrap UCL	0.239
Anderson-Darling Test Statistic	2.633	95% Bootstrap-t UCL	0.832
Anderson-Darling 5% Critical Value	0.83	95% Hall's Bootstrap UCL	0.709
Kolmogorov-Smirnov Test Statistic	0.345	95% Percentile Bootstrap UCL	0.264
Kolmogorov-Smirnov 5% Critical Value	0.219	95% BCA Bootstrap UCL	0.353
Data not Gamma Distributed at 5% Significance Le	1	95% Chebyshev(Mean, Sd) UCL	0.453
Data not danna Distributed at 5% digital cancer Le	10 1	97.5% Chebyshev(Mean, Sd) UCL	0.400
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.888
95% Approximate Gamma UCL	0.26		
95% Adjusted Gamma UCL	0.283		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.888
THE PROPERTY OF THE REST AND THE PROPERTY OF T	584 14-15-15-15-15-15-15-15-15-15-15-15-15-15-	a - FFFFAN SANDERS AND THE FEE SAND HAVE AND HAVE AND AND AND THE SECOND FROM STORY FEED AND AND AND AND AND AND AND AND AND AN	
esult or 1/2 DL (benzo(b)fluoranthene)			
	General S	Statistics	
Number of Valid Samples	18	Number of Unique Samples	17
. tall bol of talla calliples		rames of oringes campion	

Raw Statistics		Log-transformed Statistics	
Minimum	0.0036		-5.625
Maximum	1.62	Maximum of Log Data	0.482
Mean	0.146	Mean of log Data	-3.661
Median	0.0228		1.923
SD	0.374		
Coefficient of Variation	2.566		
Skewness	4.004		
R	elevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	geligan gaggerent van Robert spoksk sachte
Shapiro Wilk Test Statistic	0.398	Shapiro Wilk Test Statistic	0.858
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.299	95% H-UCL	1.165
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.436
95% Adjusted-CLT UCL	0.38	97.5% Chebyshev (MVUE) UCL	0.569
95% Modified-t UCL	0.313	99% Chebyshev (MVUE) UCL	0.829
Gamma Distribution Test	H-1611-315-161-161-3-3-1-1-1-1-1-1-1-1-1-1-1-1-1-1	Data Distribution	
k star (bias corrected)	0.355	Data Follow Appr. Gamma Distribution at 5% Significance	e Level
Theta Star	0.411		
nu star	12.79		
Approximate Chi Square Value (.05)	5.752	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	-	0.291
Adjusted Chi Square Value	5.305	95% Jackknife UCL	0.299
		95% Standard Bootstrap UCL	0.287
Anderson-Darling Test Statistic	1.361	95% Bootstrap-t UCL	0.79
Anderson-Darling 5% Critical Value	0.825	95% Hall's Bootstrap UCL	0.816
Kolmogorov-Smirnov Test Statistic	0.215	95% Percentile Bootstrap UCL	0.32
Kolmogorov-Smirnov 5% Critical Value	0.218	95% BCA Bootstrap UCL	0.412
ata follow Appr. Gamma Distribution at 5% Significance		95% Chebyshev(Mean, Sd) UCL	0.531
<u> </u>	ma (1887-1874) / 1/1 / 1/2 poljanskih (1888) (1887-1974) (1888-1874)	97.5% Chebyshev(Mean, Sd) UCL	0.697
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.024
95% Approximate Gamma UCL	0.324		
95% Adjusted Gamma UCL	0.352		
Potential UCL to Use		Use 95% Adjusted Gamma UCL	0.352
Potential UCL to Use sult or 1/2 DL (benzo(g,h,i)perylene)			0.35
Number of Valid Samples	General S 18	Statistics Number of Unique Samples	16
Raw Statistics	na nikongalang namana sastan madana	Log-transformed Statistics	
Minimum	0.0051		-5.269
Maximum	1.28	Maximum of Log Data	0.247
Mean	0.132	Mean of log Data	-3.564

	kasa ma		
SD	0.303		16.54
Coefficient of Variation	2.288		
Skewness	3.593		
JAEWIIESS	3.393		
F	Relevant UC	Statistics	+ ************************************
Normal Distribution Test	ioiorain oo	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.468	Shapiro Wilk Test Statistic	0.86
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.89
Data not Normal at 5% Significance Level	0.007	Data not Lognormal at 5% Significance Level	
		Data not cognomicato // Organicano cost	······
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.256	95% H-UCL	0.69
95% UCLs (Adjusted for Skewness)	0.200	95% Chebyshev (MVUE) UCL	0.34
95% Adjusted-CLT UCL	0.314	97.5% Chebyshev (MVUE) UCL	0.45
95% Modified-t UCL	0.267	99% Chebyshev (MVUE) UCL	0.45
3070 Modifica-t Cold	0.207	3370 Chebyshev (WVOL) COL	0.00
Gamma Distribution Test		Data Distribution	·
k star (bias corrected)	0.39	Data do not follow a Discernable Distribution (0.05)	 1
Theta Star	0.34	Data do not follow a Discernable Distribution (0.00)	,
nu star	14.03		
Approximate Chi Square Value (.05)	6.589	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	0.25
Adjusted Chi Square Value	6.105	95% Jackknife UCL	0.25
Adjusted Offi Oquale Value	0,100	95% Standard Bootstrap UCL	0.24
Anderson-Darling Test Statistic	1.426	95% Bootstrap-t UCL	0.56
Anderson-Darling 5% Critical Value	0.816	95% Hall's Bootstrap UCL	0.50
Kolmogorov-Smirnov Test Statistic	0.237	95% Percentile Bootstrap UCL	0.02
Kolmogorov-Smirnov 1981 Statistic	0.237	95% BCA Bootstrap UCL	0.23
Data not Gamma Distributed at 5% Significance Le	i	·	0.34
Data not Gamma Distributed at 5% Significance Le	vei	95% Chebyshev(Mean, Sd) UCL	0.44
According October Districts	-	97.5% Chebyshev(Mean, Sd) UCL	
Assuming Gamma Distribution	0.000	99% Chebyshev(Mean, Sd) UCL	0.84
95% Approximate Gamma UCL	0.282		
95% Adjusted Gamma UCL	0.304		
Detection U.O. to U.o.		Lies CON Obstacles (Mass Cd) LICI	0.04
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.84
esult or 1/2 DL (benzo(k)fluoranthene)			
Solid in De Goriel (Kindolan Kindo)			
N	General S		<i></i>
Number of Valid Samples	18	Number of Unique Samples	15
Raw Statistics		Log-transformed Statistics	
Minimum	0.0055	Minimum of Log Data	-5.203
Maximum	0.799	Maximum of Log Data	-0.224
Mean	0.0689	Mean of log Data	- 4.07
Median	0.0087	SD of log Data	1.38
SD	0.186		webles who telk de lett
Coefficient of Variation	2.698		
Obdinoioni or Variation		· · · · · · · · · · · · · · · · · · ·	

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.374	Shapiro Wilk Test Statistic	0.711
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level	**************************************	Data not Lognormal at 5% Significance Level	
	100		***************************************
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.145	95% H-UCL	0.13
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.10
95% Adjusted-CLT UCL	0.185	97.5% Chebyshev (MVUE) UCL	0.13
95% Modified-t UCL	0.152	99% Chebyshev (MVUE) UCL	0.19
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.421	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.164		
nu star	15.17		
Approximate Chi Square Value (.05)	7.377	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	0.14
Adjusted Chi Square Value	6.86	95% Jackknife UCL	0.14
		95% Standard Bootstrap UCL	0.13
Anderson-Darling Test Statistic	3.135	95% Bootstrap-t UCL	0.53
Anderson-Darling 5% Critical Value	0.808	95% Hall's Bootstrap UCL	0.40
Kolmogorov-Smirnov Test Statistic	0.418	95% Percentile Bootstrap UCL	0.15
Kolmogorov-Smirnov 5% Critical Value	0.216	95% BCA Bootstrap UCL	0.20
Data not Gamma Distributed at 5% Significance Lev	/el	95% Chebyshev(Mean, Sd) UCL	0.26
		97.5% Chebyshev(Mean, Sd) UCL	0.34
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.50
95% Approximate Gamma UCL	0.142		
95% Adjusted Gamma UCL	0.152		,, -,, -,, -,, -,, -,, -,, -,, -,, -,,
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.50
lesult or 1/2 DL (beryllium)			
	General S		
Number of Valid Samples	18	Number of Unique Samples	16
Raw Statistics	1 Advanta	Log-transformed Statistics	
Minimum	0.013	Minimum of Log Data	-4.343
Maximum	2.88	Maximum of Log Data	1.05
Mean	0.708	Mean of log Data	-0.74
Median	0.645	SD of log Data	1.17
SD	0.604		
Coefficient of Variation	0.854		
Skewness	2.849		
	elevant UCI		
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.673	Shapiro Wilk Test Statistic	0.74
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.89
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0,956	95% H-UCL	2,17
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	2.11
95% Adjusted-CLT UCL	1.044	97.5% Chebyshev (MVUE) UCL	2.64
95% Modified-t UCL	0.972	99% Chebyshev (MVUE) UCL	3.68

Gamma Distribution Test	4.040	Data Distribution	
k star (bias corrected)	1.213	Data do not follow a Discernable Distribution (0.05)
Theta Star	0.584		
nu star	43.65		
Approximate Chi Square Value (.05)	29.5	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	0.94
Adjusted Chi Square Value	28.39	95% Jackknife UCL	0.95
		95% Standard Bootstrap UCL	0.93
Anderson-Darling Test Statistic	1.404	95% Bootstrap-t UCL	1.12
Anderson-Darling 5% Critical Value	0.758	95% Hall's Bootstrap UCL	2.05
Kolmogorov-Smirnov Test Statistic	0.251	95% Percentile Bootstrap UCL	0.95
Kolmogorov-Smirnov 5% Critical Value	0.208	95% BCA Bootstrap UCL	1.03
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	1.32
		97.5% Chebyshev(Mean, Sd) UCL	1.59
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	2.12
95% Approximate Gamma UCL	1.047		
95% Adjusted Gamma UCL	1.088		
Potential UCL to Use t or 1/2 DL (bis(2-ethylhexyl)phthalate)		Use 99% Chebyshev (Mean, Sd) UCL	2.12
	General Sta		2.12
	General Sta		2.12
t or 1/2 DL (bis(2-ethylhexyl)phthalate)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	atistics Number of Unique Samples	
t or 1/2 DL (bis(2-ethylhexyl)phthalate) Number of Valid Samples Raw Statistics	18	Number of Unique Samples Log-transformed Statistics	18
t or 1/2 DL (bis(2-ethylhexyl)phthalate) Number of Valid Samples	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Atistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data	18
t or 1/2 DL (bis(2-ethylhexyl)phthalate) Number of Valid Samples Raw Statistics Minimum	0.0122	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-4.40¢
t or 1/2 DL (bis(2-ethylhexyl)phthalate) Number of Valid Samples Raw Statistics Minimum Maximum	0.0122 0.239 0.0462	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-4.406 -1.431 -3.333
Number of Valid Samples Raw Statistics Minimum Maximum Mean	0.0122 0.239 0.0462 0.0302	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-4.406 -1.431 -3.333
t or 1/2 DL (bis(2-ethylhexyl)phthalate) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	0.0122 0.239 0.0462	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-4.406 -1.431 -3.333
t or 1/2 DL (bis(2-ethylhexyl)phthalate) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	0.0122 0.239 0.0462 0.0302 0.0502	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-4.406 -1.431 -3.333
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0122 0.239 0.0462 0.0302 0.0502 1.087 3.679	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-4.406 -1.431 -3.333
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0122 0.239 0.0462 0.0302 0.0502 1.087	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-4.406 -1.431 -3.333
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0122 0.239 0.0462 0.0302 0.0502 1.087 3.679	Atistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-4.406 -1.431 -3.333 0.63
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic	0.0122 0.239 0.0462 0.0302 0.0502 1.087 3.679	Atistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic	-4.406 -1.431 -3.333 0.63
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0122 0.239 0.0462 0.0302 0.0502 1.087 3.679	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Statistics Statistics Lognormal Distribution Test	-4.400 -1.43 -3.333 0.63
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	0.0122 0.239 0.0462 0.0302 0.0502 1.087 3.679	Atistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	-4.400 -1.43 -3.333 0.63
Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	0.0122 0.239 0.0462 0.0302 0.0502 1.087 3.679	Assuming Lognormal Distribution Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	-4.406 -1.431 -3.333 0.63
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	0.0122 0.239 0.0462 0.0302 0.0502 1.087 3.679	Assuming Lognormal Distribution Page 1. Samples Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	-4.406 -1.431 -3.333 0.63 0.89
Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	0.0122 0.239 0.0462 0.0302 0.0502 1.087 3.679	Assuming Lognormal Distribution Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	-4.406 -1.431 -3.333 0.63

0		D-1- D!-1.2L. **	
Gamma Distribution Test	1.78	Data Distribution Data do not follow a Discernable Distribution (0.05)	
k star (bias corrected) Theta Star	0.0259	Data do not follow a Discernable Distribution (0.05)	
nu star	64.09		· · · · · · · · · · · · · · · · · · ·
Approximate Chi Square Value (.05)	46.67	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	0.06
Adjusted Chi Square Value	45.25	95% Jackknife UCL	0.06
Adjusted of oquato value	TU.20	95% Standard Bootstrap UCL	0.06
Anderson-Darling Test Statistic	1.396	95% Bootstrap-t UCL	0.10
Anderson-Darling 5% Critical Value	0.752	95% Hall's Bootstrap UCL	0.13
Kolmogorov-Smirnov Test Statistic	0.211	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.206	95% BCA Bootstrap UCL	0.0
Data not Gamma Distributed at 5% Significance Lev		95% Chebyshev(Mean, Sd) UCL	0.0
		97.5% Chebyshev(Mean, Sd) UCL	0.12
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.10
95% Approximate Gamma UCL	0.0634		
95% Adjusted Gamma UCL	0.0654		***************************************
, = ======	-		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.0
Number of Valid Samples	General Stat	Number of Unique Samples	18
	1		
Raw Statistics	The same of the sa	Log-transformed Statistics	
Minimum	0.555	Minimum of Log Data	-0.58
Maximum	39.2	Maximum of Log Data	3.6
Mean	8.028	Mean of log Data	1.3
Median	5.12	SD of log Data	1.3
SD	9.477		
Coefficient of Variation	1.18		
O1			
Skewness	2.32		. M. 1
R	2.32 elevant UCL S		
R Normal Distribution Test	elevant UCL S	Lognormal Distribution Test	
Normal Distribution Test Shapiro Wilk Test Statistic	elevant UCL S	Lognormal Distribution Test Shapiro Wilk Test Statistic	
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	elevant UCL S	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	
Normal Distribution Test Shapiro Wilk Test Statistic	elevant UCL S	Lognormal Distribution Test Shapiro Wilk Test Statistic	
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	elevant UCL S	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	elevant UCL S	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	0.89
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.742 0.897	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	29.9 ⁴ 24.5
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	0.742 0.897	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	29.9 24.5 31.1
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.742 0.897	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	29.9 24.5 31.1
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.742 0.897 11.91	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	29.9 24.5 31.1
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL	0.742 0.897 11.91	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	29.9 24.5 31.1 44.1
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test	0.742 0.897 11.91 13.01 12.12	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	29.9 24.5 31.1 44.1

Approximate Chi Square Value (.05)	15.81	Non-report Contrator	
		Nonparametric Statistics 95% CLT UCL	11.7
Adjusted Level of Significance Adjusted Chi Square Value	0.0357	95% Jackknife UCL	11.91
Adjusted Cni Square Value	15.01	95% Standard Bootstrap UCL	11.67
Anderson-Darling Test Statistic	0.516	95% Standard Bootstrap OCL	15.02
Anderson-Darling 79st Statistic Anderson-Darling 5% Critical Value	0.516	95% Bootstrap-t OCL	27.35
Kolmogorov-Smirnov Test Statistic	0.774	95% Percentile Bootstrap UCL	12.15
Kolmogorov-Smirnov 1est Statistic Kolmogorov-Smirnov 5% Critical Value	0.174	95% BCA Bootstrap UCL	13.52
Data appear Gamma Distributed at 5% Significance L		95% Chebyshev(Mean, Sd) UCL	17.76
Data appear Gamma Distributed at 5% Significance to	_evei	97.5% Chebyshev(Mean, Sd) UCL	21.98
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	30.25
	13.49	99% Chebyshev (Mean, 3d) OCL	30.23
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	13.49		
95% Adjusted Gamma OCL	14.2		The state of the s
Potential UCL to Use		Use 95% Approximate Gamma UCL	13.49
Result or 1/2 DL (butyl benzyl phthalate)			
	General S	Statistics	anta a Bangangga ann gant maga 1 6 h Ar ann an an an ann ann an
Number of Valid Samples	18	Number of Unique Samples	17
Raw Statistics		Log-transformed Statistics	
Minimum	0.0045	Minimum of Log Data	-5.389
Maximum	0.151	Maximum of Log Data	-1.89
Mean	0.016	Mean of log Data	-4.8
Median	0.0067	SD of log Data	0.851
SD	0.0344		
Coefficient of Variation	2.146		
Skewness	3.972		
F	Relevant UC	L Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.344	Shapiro Wilk Test Statistic	0.543
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	181 - 1840 - 181 - 181 - 181 - 181 - 181 - 181 - 181 - 181 - 181 - 181 - 181 - 181 - 181 - 181 - 181 - 181 - 1
95% Student's-t UCL	0.0302	95% H-UCL	0.019
95% UCLs (Adjusted for Skewness)	0,0002	95% Chebyshev (MVUE) UCL	0.022
95% Adjusted-CLT UCL	0.0375	97.5% Chebyshev (MVUE) UCL	0.022
95% Modified-t UCL	0.0314	99% Chebyshev (MVUE) UCL	0.036
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.769	Data do not follow a Discernable Distribution (0.05	i)
Theta Star	0.0209		# ENABLE ELECTRICAL ST. 1841
nu star	27.67		
Approximate Chi Square Value (.05)	16.67	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	0.029
Adjusted Chi Square Value	15.85	95% Jackknife UCL	0.030
		95% Standard Bootstrap UCL	0.029
Anderson-Darling Test Statistic	4.475	95% Bootstrap-t UCL	0.385

	de respector de la companya de la c		VALUE TO A SEC
Anderson Dodling 50' Oritical Value	0.772	059/ Halla Postston LICI	0,242
Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic	0.772 0.5	95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL	0.0308
Kolmogorov-Smirnov 7est Statistic Kolmogorov-Smirnov 5% Critical Value	0.5	95% BCA Bootstrap UCL	0.0303
		95% BCA Bootstap GCL 95% Chebyshev(Mean, Sd) UCL	0.0403
Data not Gamma Distributed at 5% Significance Le	vei	97.5% Chebyshev(Mean, Sd) UCL	0.0514
Accoming Common Distribution	<u> </u>	99% Chebyshev(Mean, Sd) UCL	0.0007
Assuming Gamma Distribution	0.0266		0.0906
95% Approximate Gamma UCL			±
95% Adjusted Gamma UCL	0.028		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.0514
Result or 1/2 DL (cadmium)			
	General		
Number of Valid Samples	18	Number of Unique Samples	13
Raw Statistics		Log-transformed Statistics	
Minimum	0.003	Minimum of Log Data	-5.809
Maximum	0.8	Maximum of Log Data	-0.223
Mean	0.207	Mean of log Data	-3.089
Median	0.0135	SD of log Data	2.132
SD	0.252		
Coefficient of Variation	1.218		
Skewness	0.938		
	Relevant UC	DL Statistics	4)-41-41-30-141-44-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4
Normal Distribution Test		Lognormal Distribution Test	andra months that a sea to be seen to see see the
Shapiro Wilk Test Statistic	0.779	Shapiro Wilk Test Statistic	0.811
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level	L	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	(4 ₀
95% Student's-t UCL	0.31	95% H-UCL	4.758
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.167
95% Adjusted-CLT UCL	0.319	97.5% Chebyshev (MVUE) UCL	1.534
95% Modified-t UCL	0.313	99% Chebyshev (MVUE) UCL	2.253
Gamma Distribution Test	0.005	Data Distribution	-1
k star (bias corrected)	0.395	Data do not follow a Discernable Distribution (0.05))
Theta Star	0.524 14.22		and the beautiful and the beau
nu star		Name and the Statistics	COOK ME-C) - dende (de emperature de l
Approximate Chi Square Value (.05)	6.721	Nonparametric Statistics	0.305
Adjusted Chi Square Volue	0.0357	95% CLT UCL 95% Jackknife UCL	0.305
Adjusted Chi Square Value	6.231	95% Jackknile UCL 95% Standard Bootstrap UCL	0.31
Andorson Dading Tast Challet	1.701	95% Standard Bootstrap UCL	0.33
Anderson-Darling Test Statistic	<u>į</u>		0.33
Anderson-Darling 5% Critical Value	0.815	95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL	0.319
Kolmogorov-Smirnov Test Statistic	0.293	•	0.303
Kolmogorov-Smirnov 5% Critical Value	0.217	95% BCA Bootstrap UCL	
Data not Gamma Distributed at 5% Significance Le	vei	95% Chebyshev(Mean, Sd) UCL	0.466

0.578

97.5% Chehyshev(Mean, Sd) UCL

Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.79
95% Approximate Gamma UCL	0.438		
95% Adjusted Gamma UCL	0.473		
Potential UCL to Use	All Andrews	Use 99% Chebyshev (Mean, Sd) UCL	0.79
sult or 1/2 DL (carbazole)			***************************************
	General Sta	atistics	main ild y conse
Number of Valid Samples	18	Number of Unique Samples	16
Raw Statistics		Log-transformed Statistics	
Minimum	0.0048	Minimum of Log Data	-5.334
Maximum	0.128	Maximum of Log Data	-2.056
Mean	0.128	Mean of log Data	-2.030 -4.778
Median	0.0155	SD of log Data	0.87
SD	0.0033	OD OI TO DELL'	J.J.
Coefficient of Variation	1.885		
Skewness	3.888		
	elevant UCL		***************************************
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.401	Shapiro Wilk Test Statistic	0.65
Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	0.897	Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	0.89
Data not Normal at 3% Significance Level		Data not Lognomia at 3% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0272	95% H-UCL	0.02
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.02
95% Adjusted-CLT UCL	0.0332	97.5% Chebyshev (MVUE) UCL	0.02
95% Modified-t UCL	0.0282	99% Chebyshev (MVUE) UCL	0.03
Gamma Distribution Test	THE STATE OF THE STA	Data Distribution	
k star (bias corrected)	0.841	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.0182		·····
nu star	30.27		
Approximate Chi Square Value (.05)	18.71	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	0.02
Adjusted Chi Square Value	17.84	95% Jackknife UCL	0.02
		95% Standard Bootstrap UCL	0.02
Anderson-Darling Test Statistic	3.213	95% Bootstrap-t UCL	0.0
Anderson-Darling 5% Critical Value	0.768	95% Hall's Bootstrap UCL	0.0
Kolmogorov-Smirnov Test Statistic	0.404	95% Percentile Bootstrap UCL	0.02
Kolmogorov-Smirnov 5% Critical Value	0.21	95% BCA Bootstrap UCL	0.03
Data not Gamma Distributed at 5% Significance Leve	el	95% Chebyshev(Mean, Sd) UCL	0.04
		97.5% Chebyshev(Mean, Sd) UCL	0.0
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.08
95% Approximate Gamma UCL	0.0248		
050/ 44:000 0 0 0 0 0 0	0.006		
95% Adjusted Gamma UCL	0.026		

ult or 1/2 DL (chromium)			
	General Sta	atistics	
Number of Valid Samples	18	Number of Unique Samples	18
Raw Statistics		Log-transformed Statistics	······································
Minimum	7.9	Minimum of Log Data	2.06
Maximum	128	Maximum of Log Data	4.85
Mean	20.26	Mean of log Data	2.68
Median	11.6	SD of log Data	0.6
SD	27.58		
Coefficient of Variation	1.361		
Skewness	3.912		
R	elevant UCL	Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.425	Shapiro Wilk Test Statistic	0.74
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.89
Data not Normal at 5% Significance Level	C validation	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	31.56	95% H-UCL	25.79
95% UCLs (Adjusted for Skewness)	01.00	95% Chebyshev (MVUE) UCL	30.69
95% Adjusted-CLT UCL	37.35	97.5% Chebyshev (MVUE) UCL	36.22
95% Modified-t UCL	32.56	99% Chebyshev (MVUE) UCL	47.0
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.441	Data do not follow a Discernable Distribution (0.05)	
Theta Star	14.06	Data do not tollow a Discernable Distribution (0.05)	
nu star	51.88		- The formation and the figure
Approximate Chi Square Value (.05)	36.34	Nonparametric Statistics	······································
Adjusted Level of Significance	0.0357	95% CLT UCL	30.9
Adjusted Chi Square Value	35.09	95% Jackknife UCL	31.5
Adjusted Citi Square Value	30.09	95% Standard Bootstrap UCL	30.82
Anderson-Darling Test Statistic	2.456	95% Bootstrap-t UCL	67.0
Anderson-Darling 1est statistic	0.755	95% Hall's Bootstrap UCL	67.3
Kolmogorov-Smirnov Test Statistic	0.733	95% Percentile Bootstrap UCL	32.3
	0.331	95% BCA Bootstrap UCL	39.8
Kolmogorov-Smirnov 5% Critical Value Data not Gamma Distributed at 5% Significance Lev		95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL	48.5
Tata not danima pistiputed at 5% olymicance Lev		97.5% Chebyshev(Mean, Sd) UCL	60.8
Assuming Gamma Distribution		97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL	84.93
95% Approximate Gamma UCL	28.92	99 % Chebyshev(Weah, 3d) OCL	04.5
95% Adjusted Gamma UCL	29.95		
		Use 95% Chebyshev (Mean, Sd) UCL	48.5
Potential UCL to Use	•		

General Statistics

(A)	15.45		
Number of Valid Samples	18	Number of Unique Samples	17
Raw Statistics		Log-transformed Statistics	
Minimum	0.0045	Minimum of Log Data	-5.392
Maximum	1.3	Maximum of Log Data	0.26
Mean	0.102	Mean of log Data	-4.114
Median	0.0051	SD of log Data	1.68
SD	0.302		
Coefficient of Variation	2.951		
Skewness	4.085		
R	elevant UCL	Statistics	
Normal Distribution Test		Lognormal Distribution Test	(*************************************
Shapiro Wilk Test Statistic	0.354	Shapiro Wilk Test Statistic	0.77
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.89
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Accuraing Nerred Distribution		Associated agreement Distribution	
Assuming Normal Distribution	0.000	Assuming Lognormal Distribution	
95% Student's-t UCL	0.226	95% H-UCL	0.3
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.17
95% Adjusted-CLT UCL	0.293	97.5% Chebyshev (MVUE) UCL	0.2
95% Modified-t UCL	0.238	99% Chebyshev (MVUE) UCL	0.33
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.34	Data do not follow a Discernable Distribution (0.05)
Theta Star	0.301		
nu star	12.25		····
Approximate Chi Square Value (.05)	5.394	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	0.22
Adjusted Chi Square Value	4.962	95% Jackknife UCL	0.22
		95% Standard Bootstrap UCL	0.2
Anderson-Darling Test Statistic	2.54	95% Bootstrap-t UCL	0.79
Anderson-Darling 5% Critical Value	0.829	95% Hall's Bootstrap UCL	0.62
Kolmogorov-Smirnov Test Statistic	0.295	95% Percentile Bootstrap UCL	0.24
Kolmogorov-Smirnov 5% Critical Value	0.219	95% BCA Bootstrap UCL	0.32
Data not Gamma Distributed at 5% Significance Lev		95% Chebyshev(Mean, Sd) UCL	0.4
		97.5% Chebyshev(Mean, Sd) UCL	0.54
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.8
95% Approximate Gamma UCL	0.233	3370 Ollebyshev (Wealt, Od) COL	
95% Adjusted Gamma UCL	0.253		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.8
It or 1/2 DL (cobalt)			
	General Sta	tistics	archa research mich succ
Number of Valid Samples	18	Number of Unique Samples	18
Raw Statistics		Log-transformed Statistics	No. of Audi
A A Landon Company of the Company of	2.81	Minimum of Log Data	1.03
Minimum	2.01	Minimal of Log Bata ;	

	r vijegal.		
Mean	5.789	Mean of log Data	1.718
Median	5.84	SD of log Data	0.299
SD	1.506		
Coefficient of Variation	0.26		
Skewness	-0.505		arteri iki sebesari iki alagi kambalak da sa
	Relevant UC	L Statistics	ngan nadisar fail a ngu ba a rannan luku arra y
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.937	Shapiro Wilk Test Statistic	0.876
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data appear Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	***************************************	Assuming Lognormal Distribution	ALCON VARIOUS PARAMETERS OF THE
95% Student's-t UCL	6,406	95% H-UCL	6.668
95% UCLs (Adjusted for Skewness)	0.400	95% Chebyshev (MVUE) UCL	7.623
95% Adjusted for Skewnessy	6.328	97.5% Chebyshev (MVUE) UCL	8.407
95% Modified-t UCL	6.399	99% Chebyshev (MVUE) UCL	9.946
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	11.08	Data appear Normal at 5% Significance Level	
Theta Star	0.522		
nu star	399		
Approximate Chi Square Value (.05)	353.7	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	6.373
Adjusted Chi Square Value	349.6	95% Jackknife UCL	6.406
		95% Standard Bootstrap UCL	6.355
Anderson-Darling Test Statistic	0.559	95% Bootstrap-t UCL	6.36
Anderson-Darling 5% Critical Value	0.739	95% Hall's Bootstrap UCL	6.317
Kolmogorov-Smirnov Test Statistic	0.143	95% Percentile Bootstrap UCL	6.351
Kolmogorov-Smirnov 5% Critical Value	0.203	95% BCA Bootstrap UCL	6.292
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	7.336
		97.5% Chebyshev(Mean, Sd) UCL	8.006
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	9.321
95% Approximate Gamma UCL	6.53		arran plane to the design and an extension of the const
95% Adjusted Gamma UCL	6.607		
Potential UCL to Use		Use 95% Student's-t UCL	6.406
		·	
esult or 1/2 DL (copper)			gg egen von noem fann op von jank in mit gert ske
Number of Valid Samples	General S	Statistics Number of Unique Samples	17
Rumber of Valid Samples	10		17
Raw Statistics	5.9	Log-transformed Statistics Minimum of Log Data	1.775
Minimum Maximum	200	Maximum of Log Data	5.298
	i i		2.621
Median	24.13	Mean of log Data	
Median	9.895	SD of log Data	0.865
SD Coefficient of Voying in p	44.66		
Coefficient of Variation	1.851		
Skewness	4.008		

	<u> 1888 - 1488</u>		
F	Relevant UCL S	Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.401	Shapiro Wilk Test Statistic	0.79
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.89
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	42.44	95% H-UCL	33.52
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	38.28
95% Adjusted-CLT UCL	52.07	97.5% Chebyshev (MVUE) UCL	46.43
95% Modified-t UCL	44.1	99% Chebyshev (MVUE) UCL	62.4
Gamma Distribution Test		Data Distribution	**************************************
k star (bias corrected)	0.889	Data do not follow a Discernable Distribution (0.05	`
Theta Star	27.13	Data do not follow a Discernable Distribution (0.00	<i>,</i>
nu star	32.02		
Approximate Chi Square Value (.05)	20.09	Nonparametric Statistics	an di nanin dan menana kadama
Adjusted Level of Significance	0.0357	95% CLT UCL	41.4
Adjusted Chi Square Value	19.18	95% Jackknife UCL	42.4
/ tajaoto on oqualo valao		95% Standard Bootstrap UCL	41.1
Anderson-Darling Test Statistic	2.14	95% Bootstrap-t UCL	104.9
Anderson-Darling 5% Critical Value	0.766	95% Hall's Bootstrap UCL	104
Kolmogorov-Smirnov Test Statistic	0.271	95% Percentile Bootstrap UCL	44.2
Kolmogorov-Smirnov 5% Critical Value	0.209	95% BCA Bootstrap UCL	55.6
Data not Gamma Distributed at 5% Significance Lev		95% Chebyshev(Mean, Sd) UCL	70.0
		97.5% Chebyshev(Mean, Sd) UCL	89.8
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	128.9
95% Approximate Gamma UCL	38.46		
95% Adjusted Gamma UCL	40.28		r : Half mytel - millet ter 1
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	70.0
sult or 1/2 DL (dibenz(a,h)anthracene)			
	General Stat	istics	
Number of Valid Samples	18	Number of Unique Samples	16
Raw Statistics		Log-transformed Statistics	
Minimum	0.0034	Minimum of Log Data	-5.67
Maximum	0.404	Maximum of Log Data	-0.90
Mean	0.0471	Mean of log Data	-4.46
Median	0.0054	SD of log Data	1.4
SD	0.101		
Coefficient of Variation	2.145		
Skewness	3.017		
R	elevant UCL S	tatistics	
Normal Distribution Test	**************************************	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.501	Shapiro Wilk Test Statistic	0.7
	0.007		

Shapiro Wilk Critical Value

0.897

0.897

Shapiro Wilk Critical Value

Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	e general as as distanting the
Assuming Normal Distribution		Assuming Lognormal Distribution	and the state of t
95% Student's-t UCL	0.0885	95% H-UCL	0.12
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.08
95% Adjusted-CLT UCL	0.104	97.5% Chebyshev (MVUE) UCL	0.114
95% Modified-t UCL	0.0913	99% Chebyshev (MVUE) UCL	0.16
Solve Modalised 1 Soll	0.0010	30 % Chebyonov (MV 32) CS2	
Gamma Distribution Test		Data Distribution	***************************************
k star (bias corrected)	0.419	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.112	andropolis individual individual proprietation processes for the entropy of the policy of the entropy of the en	
nu star j	15.07		
Approximate Chi Square Value (.05)	7.313	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	0.08
Adjusted Chi Square Value	6.798	95% Jackknife UCL	0.08
постания подавить под		95% Standard Bootstrap UCL	0.08
Anderson-Darling Test Statistic	3.091	95% Bootstrap-t UCL	0.14
Anderson-Darling 5% Critical Value	0.809	95% Hall's Bootstrap UCL	0.18
			0.18
Kolmogorov-Smirnov Test Statistic	0.429	95% Percentile Bootstrap UCL	
Kolmogorov-Smirnov 5% Critical Value	0.216	95% BCA Bootstrap UCL	0.10
Data not Gamma Distributed at 5% Significance Lev	'el	95% Chebyshev(Mean, Sd) UCL	0.15
		97.5% Chebyshev(Mean, Sd) UCL	0.19
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.28
95% Approximate Gamma UCL	0.0971		
95% Adjusted Gamma UCL	0.104		×-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.28
		Good Good Group, Good (Madail, Gu), Good Good Good Good Good Good Good Goo	0.28
esult or 1/2 DL (dibenzofuran)			0.25
	General Stati	istics	
esult or 1/2 DL (dibenzofuran) Number of Valid Samples	General Stati		16
		istics	
Number of Valid Samples		istics Number of Unique Samples	
Number of Valid Samples Raw Statistics	18	istics Number of Unique Samples Log-transformed Statistics	16
Number of Valid Samples Raw Statistics Minimum	0.0030	Stics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-5.799
Number of Valid Samples Raw Statistics Minimum Maximum	0.0030 0.0862 0.0129	istics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.799 -2.451
Raw Statistics Minimum Maximum Mean Median	0.0030 0.0862 0.0129 0.0075	Stics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-5.799 -2.451 -4.835
Raw Statistics Minimum Maximum Mean Median SD	0.0030 0.0862 0.0129 0.0075 0.0201	istics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.799 -2.451 -4.835
Raw Statistics Minimum Maximum Mean Median	0.0030 0.0862 0.0129 0.0075	istics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.799 -2.451 -4.835
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation	0.0030 0.0862 0.0129 0.0075 0.0201 1.556	istics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.799 -2.451 -4.835
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0030 0.0862 0.0129 0.0075 0.0201 1.556	Log-transformed Statistics Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-5.799 -2.451 -4.835
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0030 0.0862 0.0129 0.0075 0.0201 1.556 3.331	Istics Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test	-5.799 -2.451 -4.835 0.83
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Ro Normal Distribution Test Shapiro Wilk Test Statistic	0.0030 0.0862 0.0129 0.0075 0.0201 1.556 3.331 elevant UCL S	Istics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic	-5.799 -2.451 -4.835 0.83
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Revenuess Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.0030 0.0862 0.0129 0.0075 0.0201 1.556 3.331	istics Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Critical Value	-5.799 -2.451 -4.835 0.83
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Ro Normal Distribution Test Shapiro Wilk Test Statistic	0.0030 0.0862 0.0129 0.0075 0.0201 1.556 3.331 elevant UCL S	Istics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic	-5.799 -2.451 -4.835 0.83
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Ro Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	0.0030 0.0862 0.0129 0.0075 0.0201 1.556 3.331 elevant UCL S	Log-transformed Statistics Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	-5.799 -2.451 -4.835 0.83
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Revenuess Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.0030 0.0862 0.0129 0.0075 0.0201 1.556 3.331 elevant UCL S	istics Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Critical Value	-5.799 -2.451 -4.835 0.83

	112.00		
95% Adjusted-CLT UCL	0.0247	97.5% Chebyshev (MVUE) UCL	0.025
95% Modified-t UCL	0.0218	99% Chebyshev (MVUE) UCL	0.034
			5
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.006	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.0129		
nu star	36.23		
Approximate Chi Square Value (.05)	23.45	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	0.02
Adjusted Chi Square Value	22.47	95% Jackknife UCL	0.02
		95% Standard Bootstrap UCL	0.02
Anderson-Darling Test Statistic	3.039	95% Bootstrap-t UCL	0.07
Anderson-Darling 5% Critical Value	0.763	95% Hall's Bootstrap UCL	0.08
Kolmogorov-Smirnov Test Statistic	0.443	95% Percentile Bootstrap UCL	0.02
Kolmogorov-Smirnov 5% Critical Value	0.209	95% BCA Bootstrap UCL	0.02
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.03
		97.5% Chebyshev(Mean, Sd) UCL	0.04
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.06
95% Approximate Gamma UCL	0.02		
95% Adjusted Gamma UCL	0.0209		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.03
ult or 1/2 DL (dieldrin)	General Sta	atistics	
ult or 1/2 DL (dieldrin) Number of Valid Samples	General Sta	atistics Number of Unique Samples	16
Number of Valid Samples	.yı	Number of Unique Samples	16
Number of Valid Samples Raw Statistics	18	Number of Unique Samples Log-transformed Statistics	
Number of Valid Samples Raw Statistics Minimum	8.2500E-5	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	-9.403
Number of Valid Samples Raw Statistics Minimum Maximum	8.2500E-5 0.0054	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-9.403 -5.212
Number of Valid Samples Raw Statistics Minimum Maximum Mean	8.2500E-5 0.0054 4.8661E-4	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-9.403 -5.212 -8.757
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	8.2500E-5 0.0054 4.8661E-4 9.1250E-5	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-9.403 -5.212 -8.757
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	8.2500E-5 0.0054 4.8661E-4 9.1250E-5 0.0012	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-9.403 -5.212 -8.757
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	8.2500E-5 0.0054 4.8661E-4 9.1250E-5 0.0012 2.608	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-9.403 -5.212 -8.757
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	8.2500E-5 0.0054 4.8661E-4 9.1250E-5 0.0012 2.608 3.946	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-9.403 -5.212 -8.757 1.15
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	8.2500E-5 0.0054 4.8661E-4 9.1250E-5 0.0012 2.608	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Statistics	-9.403 -5.212 -8.757
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	8.2500E-5 0.0054 4.8661E-4 9.1250E-5 0.0012 2.608 3.946	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test	-9.403 -5.212 -8.757 1.15
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic	18	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic	-9.403 -5.212 -8.757 1.15
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	8.2500E-5 0.0054 4.8661E-4 9.1250E-5 0.0012 2.608 3.946	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test	-9.403 -5.212 -8.757 1.15
Raw Statistics Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	18	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	-9.403 -5.212 -8.757 1.15
Raw Statistics Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	18	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	-9.403 -5.212 -8.757
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	18	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	-9.403 -5.212 -8.757 1.15 0.62 0.89
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	18	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	-9.403 -5.212 -8.757 1.15 0.62 0.89
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness I Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	18	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-9.403 -5.212 -8.757 1.15 0.62 0.89
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	18	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-9.403 -5.212 -8.757 1.15 0.62 0.89
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL	18	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	-9.403 -5.212 -8.757 1.15 0.62 0.89 6.8487E 6.7672E 8.4448E
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness I Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	18	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-9.403 -5.212 -8.753 1.15 0.62 0.89 6.8487E 6.7672E 8.4448E 0.00

	7.12		
Theta Star	9.7586E-4		
nu star	17.95		
Approximate Chi Square Value (.05)	9.356	Nonparametric Statistics	, Marian de Mari
Adjusted Level of Significance	0.0357	95% CLT UCL	9.7856E-4
Adjusted Chi Square Value	8.764	95% Jackknife UCL	0.0010
		'	9.7408E-4
Anderson-Darling Test Statistic	3.815	95% Bootstrap-t UCL	0.0056
Anderson-Darling 5% Critical Value	0.795	95% Hall's Bootstrap UCL	0.0043
Kolmogorov-Smirnov Test Statistic	0.405	95% Percentile Bootstrap UCL	0.0010
Kolmogorov-Smirnov 5% Critical Value	0.214	95% BCA Bootstrap UCL	0.0013
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.001
		97.5% Chebyshev(Mean, Sd) UCL	0.0023
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0034
	9.3369E-4		
95% Adjusted Gamma UCL	9.9676E-4		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.0034
esult or 1/2 DL (diethyl phthalate)			
	General S	statistics	
Number of Valid Samples	18	Number of Unique Samples	17
Raw Statistics		Log-transformed Statistics	
Minimum	0.0037	Minimum of Log Data	<i>-</i> 5.578
Maximum	0.0498	Maximum of Log Data	-3
Mean	0.0113	Mean of log Data	-4.651
Median	0.0093	SD of log Data	. 0.521
SD	0.0098		
Coefficient of Variation	0.874		
Skewness	3.836		
F	Relevant UC		
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.447	Shapiro Wilk Test Statistic	0.715
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	angaretti utani an an an an an an an an an
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0154	95% H-UCL	0.0142
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.016
95% Adjusted-CLT UCL	0.0174	97.5% Chebyshev (MVUE) UCL	0.019
95% Modified-t UCL	0.0157	99% Chebyshev (MVUE) UCL	0.024
		Data Distribution	
Gamma Distribution Test	an an		
Gamma Distribution Test k star (bias corrected)	2.625	Data do not follow a Discernable Distribution (0.0)	5)
	2.625 0.0043	Data do not follow a Discernable Distribution (0.09	5)
k star (bias corrected)		Data do not follow a Discernable Distribution (0.0	5)
k star (bias corrected) Theta Star	0.0043	Data do not follow a Discernable Distribution (0.05) Nonparametric Statistics	5)
k star (bias corrected) Theta Star nu star	0.0043 94.5		0.015

		95% Standard Bootstrap UCL	0.0151
Anderson-Darling Test Statistic	2.778	95% Bootstrap-t UCL	0.025
Anderson-Darling 5% Critical Value	0.745	95% Hall's Bootstrap UCL	0.036
Kolmogorov-Smirnov Test Statistic	0.352	95% Percentile Bootstrap UCL	0.015
Kolmogorov-Smirnov 5% Critical Value	0.205	95% BCA Bootstrap UCL	0.018
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.021
		97.5% Chebyshev(Mean, Sd) UCL	0.0259
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.034
95% Approximate Gamma UCL	0.0146		
95% Adjusted Gamma UCL	0.015		
Color rejudica damina Col	0.010		trate (dr
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.021
Result or 1/2 DL (di-n-butyl phthalate)			
	General S		
Number of Valid Samples	18	Number of Unique Samples	17
Raw Statistics		Log-transformed Statistics	**************************************
Minimum	0.0039	Minimum of Log Data	-5.525
Maximum	0.0835	Maximum of Log Data	-2.483
Mean	0.0179	Mean of log Data	-4.275
Median	0.0155	SD of log Data	0.702
SD	0.0173		
Coefficient of Variation	0.966		
Skewness	3.497		
The state of the s	Relevant UC	L Statistics	array or a market the barbarbarbarbarbarbarbarbarbarbarbarbarb
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.528	Shapiro Wilk Test Statistic	0.807
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.025	95% H-UCL	0.026
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.030
95% Adjusted-CLT UCL	0.0282	97.5% Chebyshev (MVUE) UCL	0.036
95% Modified-t UCL	0.0256	99% Chebyshev (MVUE) UCL	0.048

Gamma Distribution Test	1 60-	Data Distribution	-1
k star (bias corrected)	1.805	Data do not follow a Discernable Distribution (0.05	?)
Theta Star	0.0099		
nu star	65	No. and a Obstance	
Approximate Chi Square Value (.05)	47.45	Nonparametric Statistics	0.004
Adjusted Chi Sauras Volus	0.0357	95% CLT UCL	0.024
Adjusted Chi Square Value	46.01	95% Jackknife UCL	0.025
	1 800	95% Standard Bootstrap UCL	0.024
Anderson-Darling Test Statistic	1.882	95% Bootstrap-t UCL	0.035
Anderson-Darling 5% Critical Value	0.752	95% Hall's Bootstrap UCL	0.057
Kolmogorov-Smirnov Test Statistic	0.305	95% Percentile Bootstrap UCL	0.025
Kolmogorov-Smirnov 5% Critical Value	0.206	95% BCA Bootstrap UCL	0.030

	ii kati		
Data not Gamma Distributed at 5% Significance Lev	vel .	95% Chebyshev(Mean, Sd) UCL	0.0357
		97.5% Chebyshev(Mean, Sd) UCL	0.0434
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.058
95% Approximate Gamma UCL	0.0246		
95% Adjusted Gamma UCL	0.0253		
Potential UCL to Use	-	Use 95% Chebyshev (Mean, Sd) UCL	0.035
sult or 1/2 DL (di-n-octyl phthalate)			
	General S	Statistics	
Number of Valid Samples	18	Number of Unique Samples	16
Raw Statistics		Log-transformed Statistics	
Minimum	0.0042	Minimum of Log Data	-5.463
Maximum	0.123	Maximum of Log Data	-2.096
Mean	0.0144	Mean of log Data	-4.844
Median	0.0047	SD of log Data	0.879
SD	0.0276		
Coefficient of Variation	1.926		
Skewness	3.985		7 mar 14 mar
F	lelevant UC	L Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.391	Shapiro Wilk Test Statistic	0.708
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	amenta a constituto de la
95% Student's-t UCL	0.0257	95% H-UCL	0.019
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.022
95% Adjusted-CLT UCL	0.0316	97.5% Chebyshev (MVUE) UCL	0.027
95% Modified-t UCL	0.0267	99% Chebyshev (MVUE) UCL	0.036
Gamma Distribution Test		Data Distribution	i jaga sang ang manahan paggabban pagtabban pagtabban pagtabban paggabban pagtabban paggabban pa
k star (bias corrected)	0.842	Data do not follow a Discernable Distribution (0.05	
Theta Star	0.0171		
nu star	30.3		
Approximate Chi Square Value (.05)	18.73	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	0.025
Adjusted Chi Square Value	17.86	95% Jackknife UCL	0.025
		95% Standard Bootstrap UCL	0.025
Anderson-Darling Test Statistic	2.764	95% Bootstrap-t UCL	0.075
Anderson-Darling 5% Critical Value	0.768	95% Hall's Bootstrap UCL	0.065
Kolmogorov-Smirnov Test Statistic	0.319	95% Percentile Bootstrap UCL	0.027
Kolmogorov-Smirnov 5% Critical Value	0.21	95% BCA Bootstrap UCL	0.034
Data not Gamma Distributed at 5% Significance Lev	/el	95% Chebyshev(Mean, Sd) UCL	0.042
		97.5% Chebyshev(Mean, Sd) UCL	0.055
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.079
95% Approximate Gamma UCL	0.0232		
95% Adjusted Gamma UCL	0.0244		

Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.04
sult or 1/2 DL (endrin)			
	General Stat	tictics	
Number of Valid Samples	18	Number of Unique Samples	17
	L		
Raw Statistics		Log-transformed Statistics	
Minimum	1.0000E-4	Minimum of Log Data	-9.21
Maximum	0.0014	Maximum of Log Data	-6.509
Mean	3.0408E-4	Mean of log Data	-8.649
Median	1.1075E-4	SD of log Data	0.90
SD	4.4300E-4		
Coefficient of Variation	1.457		
Skewness	2.426		
	Relevant UCL S	Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.511	Shapiro Wilk Test Statistic	0.64
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.89
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	4.8573E-4	95% H-UCL	
95% UCLs (Adjusted for Skewness)		, , , , , , , , , , , , , , , , , , , ,	5.1891E
·	5.3964E-4		6.3236E
95% Modified-t UCL	4.9568E-4	99% Chebyshev (MVUE) UCL	8.5520E
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.906	Data do not follow a Discernable Distribution (0.05	5)
Theta Star			
nu star	32.63		***************************************
Approximate Chi Square Value (.05)	20.57	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	4.7583E
Adjusted Chi Square Value	19.65	95% Jackknife UCL	
		95% Standard Bootstrap UCL	4.7115E
Anderson-Darling Test Statistic	3.335		9.7138E
Anderson-Darling 5% Critical Value	0.766	95% Hall's Bootstrap UCL	0.00
Kolmogorov-Smirnov Test Statistic	0.413		4.9036E
Kolmogorov-Smirnov 5% Critical Value	0.209	·	5.6164E
Data not Gamma Distributed at 5% Significance Le	İ	95% Chebyshev(Mean, Sd) UCL	7.5922E
		, , , , , , , , , , , , , , , , , , , ,	9.5616E
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.00
_	4.8233E-4		
	5.0484E-4		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	7.5922E

Result or 1/2 DL (endrin aldehyde)

	15.00		
	General S	Statistics	
Number of Valid Samples	18	Number of Unique Samples	16
Raw Statistics		Log-transformed Statistics	
and the state of t	1.9750E-4	Minimum of Log Data	-8.53
Maximum	0.0016	Maximum of Log Data	-6.413
	3.3575E-4	Mean of log Data	-8.206
	2.1825E-4	SD of log Data	0.538
	3.4111E-4		······································
Coefficient of Variation	1.016		
Skewness	3.689		
F	Relevant UC	L Statistics	***************************************
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.442	Shapiro Wilk Test Statistic	0.628
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
_	4.7561E-4	95% H-UCL	4 1301F-
95% UCLs (Adjusted for Skewness)	4.730 IL-4		4.9211E-
	5.4269E-4		5.6981E-
	4.8726E-4		7.2243E-
			The second secon
Gamma Distribution Test	-	Data Distribution	
k star (bias corrected)	2.175	Data do not follow a Discernable Distribution (0.05	5)
Theta Star			
nu star	78.31		C.L.,C.O.O.
Approximate Chi Square Value (.05)	58.93	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	
Adjusted Chi Square Value	57.31		4.7561E-
		•	4.6765E-
Anderson-Darling Test Statistic	3.127	-	9.5486E-
Anderson-Darling 5% Critical Value	0.749	•	9.2712E-
Kolmogorov-Smirnov Test Statistic	0.361	• 4	4.8614E-
Kolmogorov-Smirnov 5% Critical Value	0.206	•	5.9244E-
Data not Gamma Distributed at 5% Significance Le	vel		6.8620E-
			8.3784E-
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.00
	4.4622E-4 4.5878E-4		
	La participa de la constanta d		40- 1-410
		Use 95% Chebyshev (Mean, Sd) UCL	6.8620E-
Potential UCL to Use			
Potential UCL to Use esult or 1/2 DL (endrin ketone)			
	General S	Statistics	

Log-transformed Statistics

Raw Statistics

	2. 2.		
Minimum	2.4750E-4	Minimum of Log Data	-8.304
Maximum	0.0096	Maximum of Log Data	-4.64
Меап	8.7406E-4	Mean of log Data	-7.889
Median	2.7375E-4	SD of log Data	0.918
SD	0.0022		
Coefficient of Variation	2.531		1.0.101111111111111111111111111111111
Skewness	4.128		
F	Relevant UCI	L Statistics	
Normal Distribution Test		Lognormal Distribution Test	or received as received by an ex-
Shapiro Wilk Test Statistic	0.312	Shapiro Wilk Test Statistic	0.485
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0017	95% H-UCL	0.001
95% UCLs (Adjusted for Skewness)	0.0017	95% Chebyshev (MVUE) UCL	0.001
95% Adjusted to Skewness) 95% Adjusted-CLT UCL	0.0022	97.5% Chebyshev (MVUE) UCL	0.001
95% Modified-t UCL	0.0022	99% Chebyshev (MVUE) UCL	0.001
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.631	Data do not follow a Discernable Distribution (0.05	`
Theta Star	0.0013	Data do not follow a Discernable Distribution (0.00	<i></i>
			est (royalistadisadisadisses
nu star	22.7	Name and the Oast star	H-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
Approximate Chi Square Value (.05)	12.87	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	0.001
Adjusted Chi Square Value	12.16	95% Jackknife UCL	0.001
	4.070	95% Standard Bootstrap UCL	0.001
Anderson-Darling Test Statistic	4.879	95% Bootstrap-t UCL	0.020
Anderson-Darling 5% Critical Value	0.781	95% Hall's Bootstrap UCL	0.019
Kolmogorov-Smirnov Test Statistic	0.476	95% Percentile Bootstrap UCL	0.001
Kolmogorov-Smirnov 5% Critical Value	0.212	95% BCA Bootstrap UCL	0.002
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.003
		97.5% Chebyshev(Mean, Sd) UCL	0.004
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.006
95% Approximate Gamma UCL	0.0015		
95% Adjusted Gamma UCL	0.0016		
Potential UCL to Use	disconsisting to the second	Use 95% Chebyshev (Mean, Sd) UCL	0.003
			*
Result or 1/2 DL (fluoranthene)			
Number of Valid Samples	General S	tatistics Number of Unique Samples	16
Hambel of Valid Saffples		Hambel of Offique Samples	
Raw Statistics		Log-transformed Statistics	
Minimum	0.0033	Minimum of Log Data	-5.69
Maximum	2.19	Maximum of Log Data	0.784
Mean	0.159	Mean of log Data	-3.978
Median	0.0064	SD of log Data	1.767
SD	0.511		

Coefficient of Variation	3.208		
Skewness	4.123		

R	elevant UC	L Statistics	
Normal Distribution Test		Lognormal Distribution Test	annana, a erek erine
Shapiro Wilk Test Statistic	0.334	Shapiro Wilk Test Statistic	0.77
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.89
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	raphronius que que esta internación de esta
95% Student's-t UCL	0.369	95% H-UCL	0.48
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.23
95% Adjusted-CLT UCL	0.483	97.5% Chebyshev (MVUE) UCL	0.30
95% Modified-t UCL	0.389	99% Chebyshev (MVUE) UCL	0.44
Gamma Distribution Test		Data Distribution	and an analysis of Parlice Laboratory
k star (bias corrected)	0.303	Data do not follow a Discernable Distribution (0.05	i)
Theta Star	0.526		
nu star	10.9		V-b
Approximate Chi Square Value (.05)	4.51	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	0.3
Adjusted Chi Square Value	4.122	95% Jackknife UCL	0.36
		95% Standard Bootstrap UCL	0.35
Anderson-Darling Test Statistic	2.855	95% Bootstrap-t UCL	1.74
Anderson-Darling 5% Critical Value	0.838	95% Hall's Bootstrap UCL	1.44
Kolmogorov-Smirnov Test Statistic	0.332	95% Percentile Bootstrap UCL	0.39
Kolmogorov-Smirnov 5% Critical Value	0.22	95% BCA Bootstrap UCL	0.53
Data not Gamma Distributed at 5% Significance Lev	1	95% Chebyshev(Mean, Sd) UCL	0.68
		97.5% Chebyshev(Mean, Sd) UCL	0.9
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.3
95% Approximate Gamma UCL	0.385		
95% Adjusted Gamma UCL	0.421		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	1.3
ult or 1/2 DL (fluorene)			
	and the first state of the stat		
Number of Valid Samples	General S	Statistics Number of Unique Samples	16

Raw Statistics		Log-transformed Statistics	· · · · · · · · · · · · · · · · · · ·
Minimum	0.0034	Minimum of Log Data	-5.67
Maximum	0.141	Maximum of Log Data	-1.95
Mean	0.0163	Mean of log Data	-4.83
Median	0.0054	SD of log Data	0.9
SD	0.0324		
Coefficient of Variation	1.986		
Skewness	3.744		
R	elevant UC	L Statistics	
Normal Distribution Test		Lognormal Distribution Test	

Shapiro Wilk Test Statistic	0,419	Shapiro Wilk Test Statistic	0.679
,		Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.897
Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	0.897	Data not Lognormal at 5% Significance Level	0.69
Assuming Normal Distribution	The second second	Assuming Lognormal Distribution	
95% Student's-t UCL	0.0296	95% H-UCL	0.02
95% UCLs (Adjusted for Skewness)	5	95% Chebyshev (MVUE) UCL	0.02
95% Adjusted-CLT UCL	0.0361	97.5% Chebyshev (MVUE) UCL	0.03
95% Modified-t UCL	0.0307	99% Chebyshev (MVUE) UCL	0.04
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.722	Data do not follow a Discernable Distribution (0.05)	}
Theta Star	0.0226	had a second sec	
nu star	25.98		
Approximate Chi Square Value (.05)	15.36	Nonparametric Statistics	······································
Adjusted Level of Significance	0.0357	95% CLT UCL	0.02
Adjusted Chi Square Value	14.58	95% Jackknife UCL	0.02
Adjusted Offi Square Value	14.30	95% Standard Bootstrap UCL	0.02
Anderson-Darling Test Statistic	2 200	95% Bootstrap-t UCL	0.02
	3.308	-	0.07
Anderson-Darling 5% Critical Value	0.775	95% Hall's Bootstrap UCL	
Kolmogorov-Smirnov Test Statistic	0.441	95% Percentile Bootstrap UCL	0.03
Kolmogorov-Smirnov 5% Critical Value	0.211	95% BCA Bootstrap UCL	0.03
Data not Gamma Distributed at 5% Significance Le	/el	95% Chebyshev(Mean, Sd) UCL	0.04
		97.5% Chebyshev(Mean, Sd) UCL	0.06
Assuming Gamma Distribution	v, aspessore	99% Chebyshev(Mean, Sd) UCL	0.09
95% Approximate Gamma UCL	0.0276		
95% Adjusted Gamma UCL	0.0291		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.04
esult or 1/2 DL (indeno(1,2,3-cd)pyrene)	1177-45-107-9 \$10.107-9 \$20.107-9 \$10		
	General S	tatistics	
Number of Valid Samples	18	Number of Unique Samples	17
Raw Statistics	***************************************	Log-transformed Statistics	
Minimum	0.0082	Minimum of Log Data	-4.798
		_	
Maximum	1.51	Maximum of Log Data	0.41
Mean	0.151	Mean of log Data	-3.227
Median	0.0338	SD of log Data	1.61
SD	0.349		
Coefficient of Variation Skewness	2.305 3.88		
	0.00		
R Normal Distribution Test	elevant UCI	_ Statistics Lognormal Distribution Test	
	0.400		Λ 0.4
Shapiro Wilk Test Statistic	0.433	Shapiro Wilk Test Statistic	0.84
Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	0.897	Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	0.89
	7		
Assuming Normal Distribution		Assuming Lognormal Distribution	

95% Student's-t UCL	0.294	95% H-UCL	0.60
95% UCLs (Adjusted for Skewness)	0.294	95% Chebyshev (MVUE) UCL	0.37
95% Adjusted CLT UCL	0.367	97.5% Chebyshev (MVUE) UCL	0.37
95% Adjusted-CE1 OCL 95% Modified-t UCL	0.307	99% Chebyshev (MVUE) UCL	0.40
93 % Widdined-t OCL	0.307	33 % Chebyshev (MIVOE) OCE	0.03
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.435	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.347		or control to the first own of the control to the c
nu star	15.68		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Approximate Chi Square Value (.05)	7.735	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	0.28
Adjusted Chi Square Value	7.204	95% Jackknife UCL	0.29
		95% Standard Bootstrap UCL	0.28
Anderson-Darling Test Statistic	1.422	95% Bootstrap-t UCL	0.71
Anderson-Darling 5% Critical Value	0.805	95% Hall's Bootstrap UCL	0.75
Kolmogorov-Smirnov Test Statistic	0.238	95% Percentile Bootstrap UCL	0.31
Kolmogorov-Smirnov 5% Critical Value	0.216	95% BCA Bootstrap UCL	0.40
Data not Gamma Distributed at 5% Significance Le	l	95% Chebyshev(Mean, Sd) UCL	0.50
		97.5% Chebyshev(Mean, Sd) UCL	0.66
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.96
95% Approximate Gamma UCL	0.306		egetgedysdriveles entriklikesdrive
95% Adjusted Gamma UCL	0.329		
Potential UCL to Use		11 000/ Ob-back (Manage Od) 1101	0.01
		Use 99% Chebyshev (Mean, Sd) UCL	0.96
	General Sta		0.96
	General Sta		18
t or 1/2 DL (iron) Number of Valid Samples		ntistics Number of Unique Samples	
t or 1/2 DL (iron) Number of Valid Samples Raw Statistics	18	Number of Unique Samples Log-transformed Statistics	18
Number of Valid Samples Raw Statistics Minimum	18 8450	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	18
t or 1/2 DL (iron) Number of Valid Samples Raw Statistics Minimum Maximum	8450 102000	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	9.0 ²
Number of Valid Samples Raw Statistics Minimum Maximum Mean	8450 102000 19477	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	9.04 11.55 9.68
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	8450 102000 19477 14700	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	9.04 11.55 9.68
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	8450 102000 19477 14700 21073	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	9.0- 11.5- 9.6
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation	18 8450 102000 19477 14700 21073 1.082	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	9.0- 11.5- 9.6
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	8450 102000 19477 14700 21073	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	9.0 ² 11.5 ² 9.6 ⁸
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	18 8450 102000 19477 14700 21073 1.082	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	9.04 11.55 9.68
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	8450 102000 19477 14700 21073 1.082 3.929	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test	9.04 11.55 9.65 0.56
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Finance of the statistic of t	18 8450 102000 19477 14700 21073 1.082 3.929 Relevant UCL \$0.446	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic	9.04 11.55 9.65 0.56
Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	8450 102000 19477 14700 21073 1.082 3.929	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test	9.0-4 11.55 9.68 0.56
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Finance of Variation Skewness Finance of Variation Skewness Finance of Variation Skewness Finance of Variation Skewness	18 8450 102000 19477 14700 21073 1.082 3.929 Relevant UCL \$0.446	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic	9.0-4 11.55 9.68 0.56
Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	18 8450 102000 19477 14700 21073 1.082 3.929 Relevant UCL \$0.446	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	9.0 ² 11.5 ² 9.6 ⁵ 0.5 ⁶
Number of Valid Samples Raw Statistics Minimum Maximum Median Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	8450 102000 19477 14700 21073 1.082 3.929 Relevant UCL \$	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution	9.0 ² 11.5 ³ 9.6 ⁵ 0.5 ⁶ 0.78
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Finance Level Assuming Normal Distribution 95% Student's-t UCL	18 8450 102000 19477 14700 21073 1.082 3.929 Relevant UCL \$0.446	Atistics Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	9.04 11.53 9.65 0.56 0.78 0.89
Number of Valid Samples Raw Statistics Minimum Maximum Median Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	8450 102000 19477 14700 21073 1.082 3.929 Relevant UCL \$	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution	9.0 ² 11.5 ³ 9.6 ⁵ 0.5 ⁶ 0.78

The state of the s	de communication de la com		le romania de la compania de la comp
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	2.024	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	<u> </u>	Data do not lonow a Discontable Distribution (cook	
nu star	72.87		n
Approximate Chi Square Value (.05)	54.22	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	27646
Adjusted Chi Square Value	52.67	95% Jackknife UCL	28117
		95% Standard Bootstrap UCL	27363
Anderson-Darling Test Statistic	1.88	95% Bootstrap-t UCL	50030
Anderson-Darling 5% Critical Value	0.75	95% Hall's Bootstrap UCL	59925
Kolmogorov-Smirnov Test Statistic	0.266	95% Percentile Bootstrap UCL	29158
Kolmogorov-Smirnov 5% Critical Value	0.206	95% BCA Bootstrap UCL	34109
Data not Gamma Distributed at 5% Significance Le	1	95% Chebyshev(Mean, Sd) UCL	41127
3	1	97.5% Chebyshev(Mean, Sd) UCL	50495
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	68897
95% Approximate Gamma UCL	26179		
95% Adjusted Gamma UCL	26946		
oo / / Aquisica dariiina coc	20040		*******************************
Potential UCL to Use	<u> </u>	Use 95% Chebyshev (Mean, Sd) UCL	41127
	SP4***		
Result or 1/2 DL (lead)			
	General Sta	atistics	
Number of Valid Samples	18	Number of Unique Samples	16
Raw Statistics		Log-transformed Statistics	Segren effected to the constitution of the
Minimum	8.22	Minimum of Log Data	2.107
Maximum	471	Maximum of Log Data	6.15
Mean	57.7	Mean of log Data	3.18
Median	17.1	SD of log Data	1.16
SD	111.1		
Coefficient of Variation	1.926		
Skewness	3.403		
F	Relevant UCL	Statistics	Millioper Christian (1975)
Normal Distribution Test		Lognormal Distribution Test	***************************************
Shapiro Wilk Test Statistic	0.491	Shapiro Wilk Test Statistic	0.82
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.89
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	103.3	95% H-UCL	107
95% UCLs (Adjusted for Skewness)	·	95% Chebyshev (MVUE) UCL	105.1
95% Adjusted-CLT UCL	123.2	97.5% Chebyshev (MVUE) UCL	131.2
95% Modified-t UCL	106.8	99% Chebyshev (MVUE) UCL	182.5
		Data Distribution	
Gamma Distribution Test	1		
	0.615	Data do not follow a Discernable Distribution (0.05	5)
k star (bias corrected)	0.615	Data do not follow a Discernable Distribution (0.05	5)
	93.85 22.13	Data do not follow a Discernable Distribution (0.05	5)

Adjusted Level of Significance	0.0357	95% CLT UCL	100.8
Adjusted Chi Square Value	11.74	95% Jackknife UCL	103.3
	<u> </u>	95% Standard Bootstrap UCL	99.39
Anderson-Darling Test Statistic	2.108	95% Bootstrap-t UCL	197
Anderson-Darling 5% Critical Value	0.783	95% Hall's Bootstrap UCL	232.9
Kolmogorov-Smirnov Test Statistic	0.352	95% Percentile Bootstrap UCL	105.7
Kolmogorov-Smirnov 5% Critical Value	0.212	95% BCA Bootstrap UCL	130.8
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	171.9
	Y	97.5% Chebyshev(Mean, Sd) UCL	221.2
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	318.3
95% Approximate Gamma UCL	102.7		energen er en en en en en en en en en en en en en
95% Adjusted Gamma UCL	108.7		
Potential UCL to Use	J	Use 99% Chebyshev (Mean, Sd) UCL	318.3
Result or 1/2 DL (lithium)			
	General	Statistics	ar na ann ann an gaige Míl an 14 an ann an an gaige a
Number of Valid Samples	18	Number of Unique Samples	18
Raw Statistics		Log-transformed Statistics	
Minimum	2.59	Minimum of Log Data	0.952
Maximum	26.6	Maximum of Log Data	3.281
Mean		Mean of log Data	2.729
Median	16.15	SD of log Data	0.49
SD	5.136		***************************************
Coefficient of Variation	0.31		.,
Skewness	-0.697		
	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.93	Shapiro Wilk Test Statistic	0.671
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data appear Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	orthographes Mercents printeriories	Assuming Lognormal Distribution	
Assuming Normal Distribution 95% Student's-t UCL	18.68	Assuming Lognormal Distribution 95% H-UCL	21.97
95% UCLs (Adjusted for Skewness)	10.08	95% R-UCL 95% Chebyshev (MVUE) UCL	26.08
95% OCLS (Adjusted for Skewness) 95% Adjusted-CLT UCL	18.35	97.5% Chebyshev (MVUE) UCL	29.95
95% Modified-t UCL	18.35	97.3% Chebyshev (MVUE) UCL	37.54
90% Mounteu-LOCL	10.04	33 % Oliepysiles (INIVOE) UCL	37.34
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	5.486	Data appear Normal at 5% Significance Level	, prost, -10 (c) projector (c) 1000 co (4000 c) c)
Theta Star	3.021		
nu star	197.5		
Approximate Chi Square Value (.05)	166	Nonparametric Statistics	10 =0
Adjusted Level of Significance	0.0357		18.56
Adjusted Chi Square Value	163.2	95% Jackknife UCL	18.68
	1.55	95% Standard Bootstrap UCL	18.51
Anderson-Darling Test Statistic	1.234	95% Bootstrap-t UCL	18.55
Anderson-Darling 5% Critical Value	0.742	95% Hall's Bootstrap UCL	18.52

10 Jan 1982 1980 1982 1982 1982 1			
Kolmogorov-Smirnov Test Statistic	0.223	95% Percentile Bootstrap UCL	18.41
Kolmogorov-Smirnov 5% Critical Value	0.204	95% BCA Bootstrap UCL	18.37
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	21.85
		97.5% Chebyshev(Mean, Sd) UCL	24.13
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	28.62
95% Approximate Gamma UCL	19.72		
95% Adjusted Gamma UCL	20.05		
Potential UCL to Use		Use 95% Student's-t UCL	18.68
esult or 1/2 DL (manganese)			
	General S	Statistics	
Number of Valid Samples	18	Number of Unique Samples	18
Raw Statistics		Log-transformed Statistics	
Minimum	82.3	Minimum of Log Data	4.4
Maximum	1210	Maximum of Log Data	7.09
Mean	369.5	Mean of log Data	5.7
Median	296	SD of log Data	0.5
SD	247.7		
Coefficient of Variation	0.67		was between Harrison
Skewness	2.484		
	Relevant UC	L Statistics	**************************************
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.741	Shapiro Wilk Test Statistic	0.9
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.8
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	471	95% H-UCL	493.3
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	588.4
95% Adjusted-CLT UCL	502	97.5% Chebyshev (MVUE) UCL	684.4
95% Modified-t UCL	476.7	99% Chebyshev (MVUE) UCL	872.9
Gamma Distribution Test		Data Distribution	elber i francischer i e. i direkteren
k star (bias corrected)	2.813	Data appear Gamma Distributed at 5% Significance I	_evel
Theta Star	131.3		
nu star	101.3		### T.
Approximate Chi Square Value (.05)	79.05	Nonparametric Statistics	***************************************
Adjusted Level of Significance	0.0357	95% CLT UCL	465.5
Adjusted Chi Square Value	77.16	95% Jackknife UCL	471
		95% Standard Bootstrap UCL	461.6
Anderson-Darling Test Statistic	0.663	95% Bootstrap-t UCL	536.8
Anderson-Darling 5% Critical Value	0.745	95% Hall's Bootstrap UCL	887
Kolmogorov-Smirnov Test Statistic	0.172	95% Percentile Bootstrap UCL	465.4
Kolmogorov-Smirnov 5% Critical Value	0.205	95% BCA Bootstrap UCL	499.5
Data appear Gamma Distributed at 5% Significance I	_evel	. 95% Chebyshev(Mean, Sd) UCL	623.9
		97.5% Chebyshev(Mean, Sd) UCL	734
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	950.3

	V=0.0		
95% Approximate Gamma UCL	473.3		
95% Adjusted Gamma UCL	484.9		Philosophics (Pr. Sec. us.) (agrange) advices and Mr.
Potential UCL to Use		Use 95% Approximate Gamma UCL	473.3
Result or 1/2 DL (mercury)			
	General S	Patieties	
Number of Valid Samples	18	Number of Unique Samples	15
Raw Statistics		Log-transformed Statistics	and the second second
Minimum-	0.0011	Minimum of Log Data	-6.768
Maximum	0.064	Maximum of Log Data	-2.749
Mean	0.0126	Mean of log Data	-5.156
Median	0.0074		1.364
SD	0.0163		
Coefficient of Variation	1.295		CALLES THE PROPERTY OF THE PARTY
Skewness	2.2		
F	Relevant UC	CL Statistics	hadin 1948 bel be a selection of the sel
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.724	Shapiro Wilk Test Statistic	0.876
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	Nic tarii i Ni di Ni di Africa di Constituto de Constituto	Assuming Lognormal Distribution	
95% Student's-t UCL	0.0193	95% H-UCL	0.0425
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0351
95% Adjusted-CLT UCL	0.0211	97.5% Chebyshev (MVUE) UCL	0.0445
95% Modified-t UCL	0.0196	99% Chebyshev (MVUE) UCL	0.063
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.673	Data Follow Appr. Gamma Distribution at 5% Significance	e Level
Theta Star	0.0187		
nu star	24.24		
Approximate Chi Square Value (.05)	14.04	Nonparametric Statistics	and a color conj. prij y a b a a b a y a y a p a p a p a p a p a p a p a p
Adjusted Level of Significance	0.0357	95% CLT UCL	0.0189
Adjusted Chi Square Value	13.29	95% Jackknife UCL	0.0193
		95% Standard Bootstrap UCL	0.0187
Anderson-Darling Test Statistic	0.775	95% Bootstrap-t UCL	0.0246
Anderson-Darling 5% Critical Value	0.777	95% Hall's Bootstrap UCL	0.0464
Kolmogorov-Smirnov Test Statistic	0.234	95% Percentile Bootstrap UCL	0.0192
Kolmogorov-Smirnov 5% Critical Value	0.211	95% BCA Bootstrap UCL	0.0209
Data follow Appr. Gamma Distribution at 5% Significanc	e Level	95% Chebyshev(Mean, Sd) UCL	0.0294
		97.5% Chebyshev(Mean, Sd) UCL	0.0366
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0509
95% Approximate Gamma UCL	0.0218		
		The state of the s	
95% Adjusted Gamma UCL	0.023		MINERAL CONTRACTOR OF THE PERSON OF THE PERS

sult or 1/2 DL (molybdenum)			
	General S	tatistics	
Number of Valid Samples	18	Number of Unique Samples	15
Raw Statistics	and the state of t	Log-transformed Statistics	
Minimum	0.037	Minimum of Log Data	-3.297
Maximum	10.7	Maximum of Log Data	2.37
Mean	0.949	Mean of log Data	-1.744
Median	0.11	SD of log Data	1.69
SD	2.5		A
Coefficient of Variation	2.636		***************************************
Skewness	3.897		
· R	elevant UCL	_ Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.406	Shapiro Wilk Test Statistic	0.85
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.89
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	4011
95% Student's-t UCL	1.974	95% H-UCL	3.54
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.93
95% Adjusted-CLT UCL	2.496	97.5% Chebyshev (MVUE) UCL	2.49
95% Modified-t UCL	2.064	99% Chebyshev (MVUE) UCL	3.60
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.363	Data do not follow a Discernable Distribution (0.05))
Theta Star	2.616	Data do not follow a Discernable Distribution (0.00)	/
nu star	13.05		A.N
Approximate Chi Square Value (.05)	5.929	Nonparametric Statistics	g.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Adjusted Level of Significance	0.0357	95% CLT UCL	1.91
Adjusted Chi Square Value	5.473	95% Jackknife UCL	1.97
/ tojustos om oquato ratio		95% Standard Bootstrap UCL	1.90
Anderson-Darling Test Statistic	1.907	95% Bootstrap-t UCL	5.87
Anderson-Darling 5% Critical Value	0.823	95% Hall's Bootstrap UCL	5.18
Kolmogorov-Smirnov Test Statistic	0.276	95% Percentile Bootstrap UCL	2.07
Kolmogorov-Smirnov 5% Critical Value	0.218	95% BCA Bootstrap UCL	2.80
Data not Gamma Distributed at 5% Significance Lev		95% Chebyshev(Mean, Sd) UCL	3.51
		97.5% Chebyshev(Mean, Sd) UCL	4.62
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	6.81
95% Approximate Gamma UCL	2.088		n w \u00e4m
95% Adjusted Gamma UCL	2.262		
Potential UCL to Use	Ì	Use 99% Chebyshev (Mean, Sd) UCL	6.81
sult or 1/2 DL (nickel)			, 41 × 51 × 10 × 10 × 10 × 10 × 10 × 10 × 1
	General St	atistics	***************************************
Number of Valid Samples	18	Number of Unique Samples	17

Raw Statistics		Log-transformed Statistics	
Minimum	i 11.7	Minimum of Log Data	2.46
Maximum	51.7	Maximum of Log Data	3.945
Mean	17.04	Mean of log Data	2.762
Median	14.6	SD of log Data	0.343
SD	9.054	3D OI TOY DATA	0.545
Coefficient of Variation	0.531		
Skewness	3.644		
	Relevant LIC	DL Statistics	V
Normal Distribution Test	velevant OC	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.519	Shapiro Wilk Test Statistic	0.727
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level	0.037	Data not Lognormal at 5% Significance Level	0.037
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	20.76	95% H-UCL	19.67
95% UCLs (Adjusted for Skewness)	·	95% Chebyshev (MVUE) UCL	22.75
95% Adjusted-CLT UCL	22.51	97.5% Chebyshev (MVUE) UCL	25.35
95% Modified-t UCL	21.06	99% Chebyshev (MVUE) UCL	30.46
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	5.852	Data do not follow a Discernable Distribution (0.05))
Theta Star	2.912		
nu star	210.7		
Approximate Chi Square Value (.05)	178.1	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	20.55
Adjusted Chi Square Value	175.2	95% Jackknife UCL	20.76
		95% Standard Bootstrap UCL	20.4
Anderson-Darling Test Statistic	1.832	95% Bootstrap-t UCL	27.42
Anderson-Darling 5% Critical Value	0.741	95% Hall's Bootstrap UCL	33.85
Kolmogorov-Smirnov Test Statistic	0.262	95% Percentile Bootstrap UCL	20.86
Kolmogorov-Smirnov 5% Critical Value	0.204	95% BCA Bootstrap UCL	23.26
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	26.35
		97.5% Chebyshev(Mean, Sd) UCL	30.37
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	38.28
95% Approximate Gamma UCL	20.16		
95% Adjusted Gamma UCL	20.49		
Potential UCL to Use		Use 95% Student's-t UCL	20.76
1 OCHRICI COL IO OSE		or 95% Modified-t UCL	21.06
	nancard in a superior of the s	or 30% Mounteurt OOL	21.00
esult or 1/2 DL (phenanthrene)			
	General S	Statistics	
Number of Valid Samples	18	Number of Unique Samples	16
Day Clatistics		Log transfermed Chilitica	
Raw Statistics	0.000	Log-transformed Statistics	E 014
Minimum	0.0036		-5.614
Maximum	1.34	Maximum of Log Data	0.293

			3032.3
Mear		Mean of log Data	-3.947
Median	<u>L </u>	SD of log Data	1.591
SC			National Control of the control of t
Coefficient of Variation			
Skewness	3.979		
	Relevant UCL		
Normal Distribution Test	**************************************	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	<u> </u>	Shapiro Wilk Test Statistic	0.807
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	one and the second
Assuming Normal Distribution		Assuming Lognormal Distribution	40 t t t t t t t t t t t t t t t t t t t
95% Student's-t UCL	0.238	95% H-UCL	0.276
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.175
95% Adjusted-CLT UCL	0.305	97.5% Chebyshev (MVUE) UCL	0.225
95% Modified-t UCL	0.249	99% Chebyshev (MVUE) UCL	0.324
Gamma Distribution Test		Data Distribution	The state of the s
k star (bias corrected)	0.356	Data do not follow a Discernable Distribution (0.05)
Theta Star			
nu sta:	r 12.81		
Approximate Chi Square Value (.05)	5.764	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	0.23
Adjusted Chi Square Value	5.316	95% Jackknife UCL	0.238
		95% Standard Bootstrap UCL	0.23
Anderson-Darling Test Statistic	2.6	95% Bootstrap-t UCL	0.85
Anderson-Darling 5% Critical Value	0.825	95% Hall's Bootstrap UCL	0.793
Kolmogorov-Smirnov Test Statistic	0.318	95% Percentile Bootstrap UCL	0.249
Kolmogorov-Smirnov 5% Critical Value	0.218	95% BCA Bootstrap UCL	0.34
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.43
		97.5% Chebyshev(Mean, Sd) UCL	0.57
Assuming Gamma Distribution	1	99% Chebyshev(Mean, Sd) UCL	0.84
95% Approximate Gamma UCL	0.243		
95% Adjusted Gamma UCL	0.263		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.845
Result or 1/2 DL (pyrene)	, gar menser e sant, are en en en en en en en en en en en en en		***************************************
	General St	atictics	
Number of Valid Samples	18	Number of Unique Samples	17
Raw Statistics	1	Log-transformed Statistics	***************************************
Haw Statistics Minimum	0.0061	Log-transformed Statistics Minimum of Log Data	-5.099
Maximum		Maximum of Log Data	0.626
Mean		Mean of log Data	-3.778
Median		SD of log Data	1.68
SD		SD OI ING Data	1.00
Coefficient of Variation	2.972		**************************************
Skewness			

F	Relevant UCL S	Statistics	urum novert - rece
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.357	Shapiro Wilk Test Statistic	0.79
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.89
Data not Normal at 5% Significance Level	-	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.325	95% H-UCL	0.43
95% UCLs (Adjusted for Skewness)	0.020	95% Chebyshev (MVUE) UCL	0.2
95% Adjusted-CLT UCL	0.421	97.5% Chebyshev (MVUE) UCL	0.3
95% Modified-t UCL	0.342	99% Chebyshev (MVUE) UCL	0.4
35/8 Woulleu-LOCE	0.542	33 / CiteDystlev (MIVOL) CCL	V. +
Gamma Distribution Test		Data Distribution	n magai ngay nga ng magaiga gal dal
k star (bias corrected)	0.337	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.435		manan-n-m-19-a
nu star	12.14		
Approximate Chi Square Value (.05)	5.319	Nonparametric Statistics	***************************************
Adjusted Level of Significance	0.0357	95% CLT UCL	0.3
Adjusted Chi Square Value	4.891	95% Jackknife UCL	0.3
		95% Standard Bootstrap UCL	0.3
Anderson-Darling Test Statistic	2.472	95% Bootstrap-t UCL	1.1
Anderson-Darling 5% Critical Value	0.829	95% Hall's Bootstrap UCL	0.9
Kolmogorov-Smirnov Test Statistic	0.28	95% Percentile Bootstrap UCL	0.3
Kolmogorov-Smirnov 5% Critical Value	0.219	95% BCA Bootstrap UCL	0.4
Data not Gamma Distributed at 5% Significance Lev	/el	95% Chebyshev(Mean, Sd) UCL	0.5
		97.5% Chebyshev(Mean, Sd) UCL	0.7
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.1
95% Approximate Gamma UCL	0.335		
95% Adjusted Gamma UCL	0.364		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	1.1
esult or 1/2 DL (silver)			
	General Stat	istics	· · · · · · · · · · · · · · · · · · ·
Number of Valid Samples	18	Number of Unique Samples	14
Raw Statistics		Log-transformed Statistics	***************************************
Minimum	0.0135	Minimum of Log Data	-4.30
Maximum	0.41	Maximum of Log Data	-0.89
Mean	0.0543	Mean of log Data	-3.38
Median	0.03	SD of log Data	0.7
SD	0.0909		
Coefficient of Variation	1.676		
Skewness	3.94		
	elevant UCL S	Statictics	
Normal Distribution Test	SIGNAIN OOL S	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.398	Shapiro Wilk Test Statistic	0.7
		'	
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.

Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0915	95% H-UCL	0.072
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.084
95% Adjusted-CLT UCL	0.111	97.5% Chebyshev (MVUE) UCL	0.101
95% Modified-t UCL	0.0948	99% Chebyshev (MVUE) UCL	0.134
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.048	Data do not follow a Discernable Distribution (0.05)	Mark and State of Antonia
Theta Star	0.0517		
nu star	37.74		
Approximate Chi Square Value (.05)	24.68	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	0.089
Adjusted Chi Square Value	23.66	95% Jackknife UCL	0.003
Aujusteu Cili Square Value	23.00	95% Standard Bootstrap UCL	0.031
Anderson Deline Test Challalia	2 002		
Anderson-Darling Test Statistic	2.923	95% Bootstrap-t UCL	0.231
Anderson-Darling 5% Critical Value	0.762	95% Hall's Bootstrap UCL	0.2
Kolmogorov-Smirnov Test Statistic	0.42	95% Percentile Bootstrap UCL	0.096
Kolmogorov-Smirnov 5% Critical Value	0.208	95% BCA Bootstrap UCL	0.12
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.148
		97.5% Chebyshev(Mean, Sd) UCL	0.188
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.267
95% Approximate Gamma UCL	0.083		
95% Adjusted Gamma UCL	0.0865		
		Manuar a 1999 and 19 for an arrangement and another an arrange and the form as so a few and a second and a second and a second a second and a second a second and a second a second and a second and a second and a second a seco	
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.148
Potential UCL to Use esult or 1/2 DL (strontium)		Use 95% Chebyshev (Mean, Sd) UCL	0.148
	General S		0.148
	General S		0.148
Posult or 1/2 DL (strontium) Number of Valid Samples		Statistics Number of Unique Samples	
Number of Valid Samples Raw Statistics	18	Number of Unique Samples Log-transformed Statistics	18
Pasult or 1/2 DL (strontium) Number of Valid Samples Raw Statistics Minimum	26.6	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	18
Number of Valid Samples Raw Statistics Minimum Maximum	26.6 93.6	Statistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	18 3.281 4.539
Posult or 1/2 DL (strontium) Number of Valid Samples Raw Statistics Minimum Maximum Mean	26.6 93.6 57.32	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	18 3.281 4.539 3.989
Pasult or 1/2 DL (strontium) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	26.6 93.6 57.32 52.85	Statistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	18 3.281 4.539
Posult or 1/2 DL (strontium) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	26.6 93.6 57.32 52.85 19.7	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	18 3.281 4.539 3.989
Posult or 1/2 DL (strontium) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation	26.6 93.6 57.32 52.85 19.7 0.344	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	18 3.281 4.539 3.989
Posult or 1/2 DL (strontium) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	26.6 93.6 57.32 52.85 19.7	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	18 3.281 4.539 3.989
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	26.6 93.6 57.32 52.85 19.7 0.344	Log-transformed Statistics Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	18 3.281 4.539 3.989
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	26.6 93.6 93.6 57.32 52.85 19.7 0.344 0.325	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test	3.281 4.539 3.989 0.364
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	26.6 93.6 57.32 52.85 19.7 0.344 0.325	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic	18 3.281 4.539 3.989
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	26.6 93.6 93.6 57.32 52.85 19.7 0.344 0.325	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test	18 3.281 4.539 3.989 0.364
Psult or 1/2 DL (strontium) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic	26.6 93.6 57.32 52.85 19.7 0.344 0.325	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic	18 3.281 4.539 3.989 0.364
Raw Statistics Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Raw Statistics Minimum Mean Median SD Coefficient of Variation Skewness Raw Statistic Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	26.6 93.6 57.32 52.85 19.7 0.344 0.325	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	18 3.281 4.539 3.989 0.364
Raw Statistics Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level	26.6 93.6 57.32 52.85 19.7 0.344 0.325	Log-transformed Statistics Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level	3.281 4.539 3.989 0.364

95% Adjusted-CLT UCL	65.34	97.5% Chebyshev (MVUE) UCL	88.84
95% Modified-t UCL	65.45	99% Chebyshev (MVUE) UCL	107.4
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	7.18	Data appear Normal at 5% Significance Level	
Theta Star	7.983		
nu star	258.5		
Approximate Chi Square Value (.05)	222.2	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	64.96
Adjusted Chi Square Value	219	95% Jackknife UCL	65.4
		95% Standard Bootstrap UCL	64.93
Anderson-Darling Test Statistic	0.455	95% Bootstrap-t UCL	66.2
Anderson-Darling 5% Critical Value	0.74	95% Hall's Bootstrap UCL	65.45
Kolmogorov-Smirnov Test Statistic	0.186	95% Percentile Bootstrap UCL	64.92
Kolmogorov-Smirnov 5% Critical Value	0.204	95% BCA Bootstrap UCL	64.6
Data appear Gamma Distributed at 5% Significance L	_evel	95% Chebyshev(Mean, Sd) UCL	77.56
		97.5% Chebyshev(Mean, Sd) UCL	86.32
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	103.5
95% Approximate Gamma UCL	66.66		
95% Adjusted Gamma UCL	67.64		
Potential UCL to Use		Use 95% Student's-t UCL	65.4
ult or 1/2 DL (thallium)	General S		
ult or 1/2 DL (thallium) Number of Valid Samples	General S	Statistics Number of Unique Samples	12
Number of Valid Samples	Market Change Victoria	Number of Unique Samples	12
Number of Valid Samples Raw Statistics	18	Number of Unique Samples Log-transformed Statistics	
Number of Valid Samples Raw Statistics Minimum	0.0455	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	-3.09
Number of Valid Samples Raw Statistics Minimum Maximum	0.0455 0.63	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-3.09 -0.462
Number of Valid Samples Raw Statistics Minimum Maximum Mean	0.0455 0.63 0.109	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-3.09 -0.462 -2.67
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	0.0455 0.63 0.109 0.05	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-3.09 -0.462 -2.67
Raw Statistics Minimum Maximum Mean Median SD	0.0455 0.63 0.109 0.05 0.16	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-3.09 -0.462 -2.67
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	0.0455 0.63 0.109 0.05	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-3.09 -0.462 -2.67
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0455 0.63 0.109 0.05 0.16 1.47 2.87	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-3.09 -0.462 -2.67
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0455 0.63 0.109 0.05 0.16 1.47	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-3.09 -0.462 -2.67
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0455 0.63 0.109 0.05 0.16 1.47 2.87	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-3.09 -0.462 -2.67 0.77
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic	0.0455 0.63 0.109 0.05 0.16 1.47 2.87	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic	-3.09 -0.462 -2.67 0.77
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0455 0.63 0.109 0.05 0.16 1.47 2.87	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD tog Data Lognormal Distribution Test	-3.09 -0.462 -2.67 0.77
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	0.0455 0.63 0.109 0.05 0.16 1.47 2.87	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SL Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	-3.09 -0.462 -2.67 0.77
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	0.0455 0.63 0.109 0.05 0.16 1.47 2.87 Relevant UC 0.442 0.897	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SL Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution	-3.09 -0.462 -2.67 0.77 0.56
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	0.0455 0.63 0.109 0.05 0.16 1.47 2.87	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SL Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	-3.09 -0.462 -2.67 0.77 0.56 0.89
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.0455 0.63 0.109 0.05 0.16 1.47 2.87 Relevant UC 0.442 0.897	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data SL Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	-3.09 -0.462 -2.67 0.77 0.56 0.89
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	0.0455 0.63 0.109 0.05 0.16 1.47 2.87 Relevant UC 0.442 0.897 0.174	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-3.09 -0.462 -2.67 0.77 0.56 0.89
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.0455 0.63 0.109 0.05 0.16 1.47 2.87 Relevant UC 0.442 0.897	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data SL Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	-3.09 -0.462 -2.67 0.77 0.56 0.89
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	0.0455 0.63 0.109 0.05 0.16 1.47 2.87 Relevant UC 0.442 0.897 0.174	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-3.09 -0.462 -2.67 0.77 0.56 0.89

persons along, as a fixed delegative are a copied for engaged more special recovery consequences are an engaged			TATION OF THE PARTY OF
	0.101		14.5
Theta Star	0.101		
nu star	38.82	No-read Alia Chatistica	
Approximate Chi Square Value (.05)	25.55 0.0357	Nonparametric Statistics 95% CLT UCL	0.171
Adjusted Level of Significance Adjusted Chi Square Value	24.52	95% Jackknife UCL	0.171
Adjusted Cril Square Value	24.52	95% Standard Bootstrap UCL	0.174
Anderson-Darling Test Statistic	4.13	95% Standard Bootstrap UCL	0.166
Anderson-Darling 1est Statistic Anderson-Darling 5% Critical Value	0.761	95% Bootstrap UCL	0.70
Kolmogorov-Smirnov Test Statistic	0.701	95% Percentile Bootstrap UCL	0.350
Kolmogorov-Smirnov 1est Statistic Kolmogorov-Smirnov 5% Critical Value	0.397	95% BCA Bootstrap UCL	0.107
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.190
Data not Gamina Distributed at 5% Significance Le	/61	97.5% Chebyshev(Mean, Sd) UCL	0.273
Assuming Gamma Distribution			0.483
95% Approximate Gamma UCL	0.165	99% Chebyshev(Mean, Sd) UCL	0.403
	0.165		nga kanga menangangan mengangan dan kelabah saka me
95% Adjusted Gamma UCL	0.172		H
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.273
Result or 1/2 DL (tin)			
	General S	Statistics	
Number of Valid Samples	18	Number of Unique Samples	14
Raw Statistics		Log-transformed Statistics	
Minimum	0.195	Minimum of Log Data	-1.635
Maximum	3.67	Maximum of Log Data	1.3
Mean	0.625	Mean of log Data	-0.897
Median	0.295	SD of log Data	0.805
SD	0.846		*******************
Coefficient of Variation	1.354		
Skewness	3.137		
	elevant UC	L Statistics	
Normal Distribution Test	0.500	Lognormal Distribution Test	0.700
Shapiro Wilk Test Statistic	0.533	Shapiro Wilk Test Statistic	0.763
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	***************************************
Assuming Normal Distribution	1	Assuming Lognormal Distribution	reducer of the second second
95% Student's-t UCL	0.972	95% H-UCL	0.897
95% UCLs (Adjusted for Skewness)	- The state of the	95% Chebyshev (MVUE) UCL	1.043
95% Adjusted-CLT UCL	1.111	97.5% Chebyshev (MVUE) UCL	1.256
95% Modified-t UCL	0.996	99% Chebyshev (MVUE) UCL	1.673
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1,131	Data do not follow a Discernable Distribution (0.05)
Theta Star	0.552		anneren er de en eterskerte
nu star	40.73		
Approximate Chi Square Value (.05)	27.1	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	0.953
Adjusted Chi Square Value	26.04	95% Jackknife UCL	0.972

	le se de la companione de		
。		OFW Conduct Designation (CO)	0.050
Andrew Daily T. 100 (19)	0.000	95% Standard Bootstrap UCL	0.958 1.597
Anderson-Darling Test Statistic	2.399	95% Bootstrap-t UCL	2.128
Anderson-Darling 5% Critical Value	0.76	95% Hall's Bootstrap UCL	0.998
Kolmogorov-Smirnov Test Statistic	0.388	95% Percentile Bootstrap UCL	1,139
Kolmogorov-Smirnov 5% Critical Value	0.208	95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL	1.139
Data not Gamma Distributed at 5% Significance Le	vei	97.5% Chebyshev(Mean, Sd) UCL	1.494
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	2.609
95% Approximate Gamma UCL	0.939	99% Chebyshev(Weah, Su) OCL	2.009
95% Adjusted Gamma UCL	0.939		
95 % Adjusted Gaillina OCL	0.976		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	1.494
Result or 1/2 DL (titanium)			
	General S	Statistics	
Number of Valid Samples	18	Number of Unique Samples	17
Raw Statistics		Log-transformed Statistics	
Minimum	3.41	Minimum of Log Data	1.227
Maximum	55.9	Maximum of Log Data	4.024
Mean	20.67	Mean of log Data	2.882
Median	18.7	SD of log Data	0.591
SD	11.65		
Coefficient of Variation	0.563		
Skewness	1.656		
F	Relevant UC	CL Statistics	y consider Codding of the place of the letter
Normal Distribution Test		Lognormal Distribution Test	4.04.000.000.000.000.000.000
Shapiro Wilk Test Statistic	0.87	Shapiro Wilk Test Statistic	0.93
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
		·	han e eta algantea manar en Umana, a este en tidado
Assuming Normal Distribution		Assuming Lognormal Distribution	14 E. P 14 F F E E E E E E E E E E E E E E E E E
95% Student's-t UCL	25.45	95% H-UCL	28.82
95% UCLs (Adjusted for Skewness)	ontononia de maiorino de marino	95% Chebyshev (MVUE) UCL	34.38
95% Adjusted-CLT UCL	26.33	97.5% Chebyshev (MVUE) UCL	40.17
95% Modified-t UCL	25.63	99% Chebyshev (MVUE) UCL	51.53
Gamma Distribution Test	4-1	Data Distribution	
k star (bias corrected)	3.002	Data Distributed at 5% Significance L	evel
Theta Star	6.886	The appear definite plantage of the particular o	
nu star	108.1		***************************************
Approximate Chi Square Value (.05)	85.08	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	25.19
Adjusted Chi Square Value	83.12	95% Jackknife UCL	25.45
Agased On Oquale Value	JU. 12	95% Standard Bootstrap UCL	25.43
Anderson-Darling Test Statistic	0.339	95% Bootstrap-t UCL	27.18
Anderson-Darling 5% Critical Value	0.339	95% Hall's Bootstrap UCL	31.11
Kolmogorov-Smirnov Test Statistic	0.744	95% Percentile Bootstrap UCL	25.41
Kolmogorov-Smirnov 5% Critical Value	0.205	95% BCA Bootstrap UCL	26.43
Normogorov-ornatiov 576 Critical Value	0.200	30 % BOX BOOKSHAP OOL	<u> </u>

Data appear Gamma Distributed at 5% Significance	ı. Level	95% Chebyshev(Mean, Sd) UCL	32.64
		97.5% Chebyshev(Mean, Sd) UCL	37.82
Assuming Gamma Distribution	<u> </u>	99% Chebyshev(Mean, Sd) UCL	47.99
95% Approximate Gamma UCL	26.26		
95% Adjusted Gamma UCL	26.88	The second section is the second seco	
	<u> </u>		······································
Potential UCL to Use	I	Use 95% Approximate Gamma UCL	26.26
Down to a 40 Di American			
Result or 1/2 DL (vanadium)			
	General		4.0
Number of Valid Samples	18	Number of Unique Samples	18
Raw Statistics	<u></u>	Log-transformed Statistics	PPE - 181 PA - 164 SA SA - 1 A ST - 184 FACE OFFICE OFFI
Minimum	7.85	Minimum of Log Data	2.061
Maximum	45.8	Maximum of Log Data	3.824
Mean	19.66	Mean of log Data	2.884
Median	18.65	SD of log Data	0.449
SD	9.126		
Coefficient of Variation	0.464		
Skewness	1.322		***************************************
	Relevant UC	DL Statistics	y-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
Normal Distribution Test	. PP 2 PP 3 PP 3 PP 34464, April 1974 (4,7 abril 2-14-7) PP - 1.7 2 - 4,6 2 Pa	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.905	Shapiro Wilk Test Statistic	0.981
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data appear Normal at 5% Significance Level	4.00.00.00.00.00.00.00.00.00.00.00.00.00	Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	and the state of t
95% Student's-t UCL	23.4	95% H-UCL	24.54
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	28.98
95% Adjusted-CLT UCL	23.91	97.5% Chebyshev (MVUE) UCL	33.02
95% Modified-t UCL	23.51	99% Chebyshev (MVUE) UCL	40.95
	<u> </u>		
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	4.562	Data appear Normal at 5% Significance Level	
Theta Star	4.309		
nu star	164.2		
Approximate Chi Square Value (.05)	135.6	Nonparametric Statistics	
Adjusted Level of Significance	0.0357		23.2
Adjusted Chi Square Value	133.1	95% Jackknife UCL	23.4
	-	95% Standard Bootstrap UCL	23.08
Anderson-Darling Test Statistic	0.2	95% Bootstrap-t UCL	24.27
Anderson-Darling 5% Critical Value	0.743	95% Hall's Bootstrap UCL	25.56
Kolmogorov-Smirnov Test Statistic	0.0982		23.38
Kolmogorov-Smirnov 5% Critical Value	0.204	95% BCA Bootstrap UCL	23.66
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev (Mean, Sd) UCL	29.03
According October 121 to 11	4	97.5% Chebyshev (Mean, Sd) UCL	33.09
Assuming Gamma Distribution	00.04	99% Chebyshev(Mean, Sd) UCL	41.06
95% Approximate Gamma UCL	23.81		
95% Adjusted Gamma UCL	24.26		

	ida di E		
Potential UCL to Use		Use 95% Student's-t UCL	23.4
esult or 1/2 DL (zinc)			
			-
Number of Valid Comples	General Sta	ntistics Number of Unique Samples	18
Number of Valid Samples	10	Number of Onique Samples	10
Raw Statistics		Log-transformed Statistics	anne arrantement de statut
Minimum	29.5	Minimum of Log Data	3.3
Maximum	5640	Maximum of Log Data	8.6
Mean	418.4	Mean of log Data	4.50
Median	53.95	SD of log Data	1.32
SD	1308		
Coefficient of Variation	3.125		· · · · · · · · · · · · · · · · · · ·
Skewness	4.195		
F	Relevant UCL	Statistics	are an energy areas
Normal Distribution Test		Lognormal Distribution Test	***************************************
Shapiro Wilk Test Statistic	0.313	Shapiro Wilk Test Statistic	0.7
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.8
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assessment Distribution		As a second of the second of t	
Assuming Normal Distribution 95% Student's-t UCL	954.5	Assuming Lognormal Distribution 95% H-UCL	630.3
95% UCLs (Adjusted for Skewness)	304.0	95% Chebyshev (MVUE) UCL	542.9
95% Adjusted-CLT UCL	1251	97.5% Chebyshev (MVUE) UCL	686.4
95% Modified-t UCL	1005	99% Chebyshev (MVUE) UCL	968.2
30 % Hodined (30L	1000	35% Gliobysilev (WYGE) GGE	
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.403	Data do not follow a Discernable Distribution (0.05)
Theta Star	1037		
nu star	14.52		
Approximate Chi Square Value (.05)	6.931	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	925.3
Adjusted Chi Square Value	6.432	95% Jackknife UCL	954.5
		95% Standard Bootstrap UCL	894.1
Anderson-Darling Test Statistic	2.911	95% Bootstrap-t UCL	5665
Anderson-Darling 5% Critical Value	0.813	95% Hall's Bootstrap UCL	3753
Kolmogorov-Smirnov Test Statistic	0.278	95% Percentile Bootstrap UCL	1025
Kolmogorov-Smirnov 5% Critical Value	0.217	95% BCA Bootstrap UCL	1352
Data not Gamma Distributed at 5% Significance Lev	/el	95% Chebyshev(Mean, Sd) UCL	1762
		97.5% Chebyshev(Mean, Sd) UCL	2343
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	3485
95% Approximate Gamma UCL	876.6		,
95% Adjusted Gamma UCL	944.6		
	r inchia		3485

APPENDIX A-4

NORTH OF MARLIN SOIL

en en est afort des le les compositions	and the state of t	F-10-10-10-10-10-10-10-10-10-10-10-10-10-		
lG	ieneral UCL Statistics	for Full Data S	6ets	
User Selected Options				
	\1352 - Gulfco RI\risk	\eco\Tables for	Revisited SLERA\soil N of Marlin aug 2008.wst	
)FF			nantaka masa ka sa Angara da ka sa
	5%	and the section of th		
	000	M. Falggiot regions system blocks for all and a specific systems (\$100). We say		
esult or 1/2 DL (1,1-dichloroethane	•)			
		General Stat		
Numl	ber of Valid Samples	19	Number of Unique Samples	19
Raw Stati			Log-transformed Statistics	
and of the state o		6.4000E-5	Minimum of Log Data	- 9.657
enth White Nigeria particular and the particular and particular and particular and particular and beautiful and the particular and particular	Maximum	0.518	Maximum of Log Data	-0.658
and the state of t	Mean	0.0286	Mean of log Data	-7.963
		8.7000E-5	SD of log Data	2.50
	SD	0.119		
Co	pefficient of Variation	4.147		Mineral and the second section of the second
	Skewness	4.355		
	F	Relevant UCL S	Statistics	
Normal Distrib	ution Test		Lognormal Distribution Test	
- Shapi	ro Wilk Test Statistic	0.258	Shapiro Wilk Test Statistic	0.68
Shapir	o Wilk Critical Value	0.901	Shapiro Wilk Critical Value	0.90
Data not Normal at 5% S	Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal	I Distribution		Assuming Lognormal Distribution	
	95% Student's-t UCL	0.0757	95% H-UCL	0.17
95% UCLs (Adjuste	d for Skewness)	L	95% Chebyshev (MVUE) UCL	0.01
95%	6 Adjusted-CLT UCL	0.102	97.5% Chebyshev (MVUE) UCL	0.02
	95% Modified-t UCL	0.0803	99% Chebyshev (MVUE) UCL	0.03
Gamma Distrib	ution Test		Data Distribution	
k	star (bias corrected)	0.179	Data do not follow a Discernable Distribution (0.05)
	Theta Star	0.16		V
	nu star	6.805		***************************************
Approximate Ch	i Square Value (.05)	2.064	Nonparametric Statistics	
Adjusted I	_evel of Significance	0.0369	95% CLT UCL	0.07
	ed Chi Square Value	1.844	95% Jackknife UCL	0.07
and the filter in the an entire field of a complete rest of effects by a constant in the first constitution of entire by property and a first constitution of the first consti	**************************************		95% Standard Bootstrap UCL	0.07
Anderson-I	Darling Test Statistic	4.123	95% Bootstrap-t UCL	2.61
	ng 5% Critical Value	0.899	95% Hall's Bootstrap UCL	1.44
	mirnov Test Statistic	0.386	95% Percentile Bootstrap UCL	0.08
	ov 5% Critical Value	0.221	95% BCA Bootstrap UCL	0.11
Data not Gamma Distributed a		l	95% Chebyshev(Mean, Sd) UCL	0.14
	70 Oiginnounce Le		97.5% Chebyshev(Mean, Sd) UCL	0.19
Assuming Gamma	Distribution		99% Chebyshev(Mean, Sd) UCL	0.13
	ximate Gamma UCL	0.0942	33 % Griebyshev(Medil, Gu) UCL	U.23
	ljusted Gamma UCL			
95% A0	ijusteu Gamma UCL	0.105		

Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.299
ult or 1/2 DL (1,1-dichloroethene)			
Number of Valid Samples	General St	atistics Number of Unique Samples	19
Number of Valid Samples	19	Number of Offique Samples	13
Raw Statistics		Log-transformed Statistics	MINIMARITY SAFETON
Minimum	1.4500E-4	Minimum of Log Data	-8.839
Maximum	0.313	Maximum of Log Data	-1.162
Mear	0.0179	Mean of log Data	-7.528
Mediar	1.9050E-4	SD of log Data	2.12
SE	0.0715		
Coefficient of Variation	3.989		14-14-14-14-14-14-14-14-14-14-14-14-14-1
Skewness	4.348		
		Obstables	and the state of t
Normal Distribution Test	Relevant UCL	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.267	Shapiro Wilk Test Statistic	0.64
Shapiro Wilk Critical Value		Shapiro Wilk Critical Value	0.90
Data not Normal at 5% Significance Level	1	Data not Lognormal at 5% Significance Level	
			4-3-4
Assuming Normal Distribution		Assuming Lognormal Distribution	***************************************
95% Student's-t UCL	0.0464	95% H-UCL	0.04
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.01
95% Adjusted-CLT UCL	0.0624	97.5% Chebyshev (MVUE) UCL	0.01
95% Modified-t UCL	0.0491	99% Chebyshev (MVUE) UCL	0.02
Commo Distribution Tool		Date Distribution	
Gamma Distribution Test	0.011	Data Distribution	
k star (bias corrected)		Data do not follow a Discernable Distribution (0.05)	
Theta Star			
nu stal	8.005 2.738	Nanagarahii Statistica	
Approximate Chi Square Value (.05) Adjusted Level of Significance	0.0369	Nonparametric Statistics 95% CLT UCL	0.04
Adjusted Level of Significance Adjusted Chi Square Value	2.476	95% CET OCE 95% Jackknife UCL	0.04
Adjusted Cili Square Value	2.470	95% Standard Bootstrap UCL	0.04
Anderson-Darling Test Statistic	4 254	95% Bootstrap-t UCL	0.67
Anderson-Darling 5% Critical Value	4.354 0.884	95% Hall's Bootstrap UCL	0.39
Kolmogorov-Smirnov Test Statistic	0.427	95% Percentile Bootstrap UCL	0.05
Kolmogorov-Smirnov 5% Critical Value	0.427	95% BCA Bootstrap UCL	0.00
Data not Gamma Distributed at 5% Significance Le	ł i	95% Chebyshev(Mean, Sd) UCL	0.00
2 a.c. riot darinia Distributed at 0.6 digitimedite Le		97.5% Chebyshev(Mean, Sd) UCL	0.12
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.18
95% Approximate Gamma UCL	0.0524		
95% Adjusted Gamma UCL	0.058		
		Use 99% Chebyshev (Mean, Sd) UCL	0.18

	General	Statistics	
Number of Valid Samples	19	Number of Unique Samples	18
Raw Statistics		Log-transformed Statistics	
манти за тако по тако по тако по тако по тако по тако по тако по тако по тако по тако по тако по тако по тако п	4.6000E-5	Minimum of Log Data	-9.987
Maximum		Maximum of Log Data	-1.732
Mean		Mean of log Data	-8.083
	6.2500E-5	SD of log Data	2.49
SD	1		
Coefficient of Variation	3.799		and the state of t
Skewness	4.329		, 10, 7, 2 10, 11, 11, 11, 11, 11, 11, 11, 11, 11,
	Relevant UC	CL Statistics	and a many to the SPP to SELECTE AN ANGARA
Normal Distribution Test	riche fotestween was nother morten.	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.282	Shapiro Wilk Test Statistic	0.741
Shapiro Wilk Critical Value	0.901	Shapiro Wilk Critical Value	0.901
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
	e ole her hade her ann ar an agus garger e sgàr ga hade he dhi kin		
Assuming Normal Distribution		Assuming Lognormal Distribution	0.440
95% Student's-t UCL	0.0267	95% H-UCL	0.143
95% UCLs (Adjusted for Skewness)	***************************************	95% Chebyshev (MVUE) UCL	0.016
95% Adjusted-CLT UCL	0.0357	97.5% Chebyshev (MVUE) UCL	0.022
95% Modified-t UCL	0.0282	99% Chebyshev (MVUE) UCL	0.033
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.209	Data do not follow a Discernable Distribution (0.05)
Theta Star	0.0508		
nu star	7.952		
Approximate Chi Square Value (.05)	2.708	Nonparametric Statistics	
Adjusted Level of Significance	0.0369	95% CLT UCL	0.025
Adjusted Chi Square Value	2.447	95% Jackknife UCL	0.026
		95% Standard Bootstrap UCL	0.025
Anderson-Darling Test Statistic	3.162	95% Bootstrap-t UCL	0.349
Anderson-Darling 5% Critical Value	0.885	95% Hall's Bootstrap UCL	0.153
Kolmogorov-Smirnov Test Statistic	0.358	95% Percentile Bootstrap UCL	0.029
Kolmogorov-Smirnov 5% Critical Value	0.22	95% BCA Bootstrap UCL	0.038
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.051
	1	97.5% Chebyshev(Mean, Sd) UCL	0.068
Assuming Gamma Distribution	1	99% Chebyshev(Mean, Sd) UCL	0.103
95% Approximate Gamma UCL	0.0312		
95% Adjusted Gamma UCL	0.0345		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.103
esult or 1/2 DL (2-butanone)			
		N. 41 - 44	
Number of Valid Samples	General S	Statistics Number of Unique Samples	19
Raw Statistics		Log-transformed Statistics	
Minimum	1.2600E-4	Minimum of Log Data	-8.979

Maximum	0.208	Maximum of Log Data	-1.57
Mean	0.0139	Mean of log Data	-6.223
Median	0.0029	SD of log Data	1.907
SD	0.0471		
Coefficient of Variation	3.378		
Skewness	4.338		
F	Relevant UCL		
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.288	Shapiro Wilk Test Statistic	0.858
Shapiro Wilk Critical Value	0.901	Shapiro Wilk Critical Value	0.901
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0327	95% H-UCL	0.077
95% UCLs (Adjusted for Skewness)	L	95% Chebyshev (MVUE) UCL	0.032
95% Adjusted-CLT UCL	0.0432	97.5% Chebyshev (MVUE) UCL	0.042
95% Modified-t UCL	0.0344	99% Chebyshev (MVUE) UCL	0.061
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.326	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.0427		**************************************
nu star	12,4		
Approximate Chi Square Value (.05)	5.488	Nonparametric Statistics	
Adjusted Level of Significance	0.0369	95% CLT UCL	0.031
Adjusted Chi Square Value	5.091	95% Jackknife UCL	0.032
		95% Standard Bootstrap UCL	0.031
Anderson-Darling Test Statistic	2.196	95% Bootstrap-t UCL	0.25
Anderson-Darling 5% Critical Value	0.834	95% Hall's Bootstrap UCL	0.129
Kolmogorov-Smirnov Test Statistic	0.356	95% Percentile Bootstrap UCL	0.035
Kolmogorov-Smirnov 5% Critical Value	0.214	95% BCA Bootstrap UCL	0.046
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.061
		97.5% Chebyshev(Mean, Sd) UCL	0.081
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.121
95% Approximate Gamma UCL	0.0315		
95% Adjusted Gamma UCL	0.0339		ngera, se a a ay dan ang camago ay de daga dada dada sud a
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.121
esult or 1/2 DL (2-methylnaphthalene)			
Number of Valid Samples	General S	tatistics Number of Unique Samples	19
Transport of Valid Carlyles		Transo di Orngo Campio	
Raw Statistics	***************************************	Log-transformed Statistics	
Minimum	0.005	Minimum of Log Data	-5.298
Maximum	0.053	Maximum of Log Data	-2.937
Mean	0.0103	Mean of log Data	-4.915
Median	0.0059	SD of log Data	0.663
SD	0.0131		
Coefficient of Variation	1.267		

Skewness	2.781		
	Relevant UC		
Normal Distribution Test	0.440	Lognormal Distribution Test	0.40
Shapiro Wilk Test Statistic	0.416	Shapiro Wilk Test Statistic	0.49
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.93
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.014	95% H-UCL	0.01
95% UCLs (Adjusted for Skewness)	0.011	95% Chebyshev (MVUE) UCL	0.01
95% Adjusted-CLT UCL	0.015	97.5% Chebyshev (MVUE) UCL	0.01
95% Modified-t UCL	0.0142	99% Chebyshev (MVUE) UCL	0.0
	0.0 / 12		
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.491	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.0069		
nu star	107.3		
Approximate Chi Square Value (.05)	84.44	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.0
Adjusted Chi Square Value	83.51	95% Jackknife UCL	0.0
		95% Standard Bootstrap UCL	0.01
Anderson-Darling Test Statistic	9.26	95% Bootstrap-t UCL	0.0
Anderson-Darling 5% Critical Value	0.765	95% Hall's Bootstrap UCL	0.0
Kolmogorov-Smirnov Test Statistic	0.468	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.149	95% BCA Bootstrap UCL	0.01
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.01
		97.5% Chebyshev(Mean, Sd) UCL	0.02
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.03
95% Approximate Gamma UCL	0.0131		
95% Adjusted Gamma UCL	0.0133		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.0
sult or 1/2 DL (4,4'-dde)			
	General S	Statistics	
Number of Valid Samples	36	Number of Unique Samples	31
Raw Statistics		Log-transformed Statistics	
	1.8950E-4	Minimum of Log Data	-8.57
Maximum	0.0149	Maximum of Log Data	-4.20
Mean	7.0636E-4	Mean of log Data	-8.21
Median	2.1150E-4	SD of log Data	0.84
SD	0.0024		
Coefficient of Variation	3.483		
Skewness	5.808		
	Relevant UC	I Statistics	
Normal Distribution Test	relevant OC	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.222	Shapiro Wilk Test Statistic	0.4

			(4.1.1)
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.935
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Appuration Name of Distribution		Assuming Lagrange Distribution	
Assuming Normal Distribution	0.0044	Assuming Lognormal Distribution 95% H-UCL	E 2002
95% Student's-t UCL	0.0014		
95% UCLs (Adjusted for Skewness)	~ ~ ~ ~ ~	95% Chebyshev (MVUE) UCL	
95% Adjusted-CLT UCL	0.0018	97.5% Chebyshev (MVUE) UCL	7.5362E-4
95% Modified-t UCL	0.0014	99% Chebyshev (MVUE) UCL	9.7511E-4
Gamma Distribution Test		Data Distribution	The section of the se
k star (bias corrected)	0.603	Data do not follow a Discernable Distribution (0.0)	5)
Theta Star	0.0011		
nu star	43.4		
Approximate Chi Square Value (.05)	29,29	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.001
Adjusted Chi Square Value	28.77	95% Jackknife UCL	0.001
		95% Standard Bootstrap UCL	0.001
Anderson-Darling Test Statistic	10.81	95% Bootstrap-t UCL	0.047
Anderson-Darling 5% Critical Value	0.799	95% Hall's Bootstrap UCL	0.047
	0.799	95% Percentile Bootstrap UCL	0.008
Kolmogorov-Smirnov Test Statistic			0.001
Kolmogorov-Smirnov 5% Critical Value	0.154	95% BCA Bootstrap UCL	
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.002
		97,5% Chebyshev(Mean, Sd) UCL	0.003
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.004
95% Approximate Gamma UCL	0.0010		
95% Adjusted Gamma UCL	0.0010		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.002
esult or 1/2 DL (4,4'-ddt)			
	General S		- 00
Number of Valid Samples	36	Number of Unique Samples	28
Raw Statistics		Log-transformed Statistics	eranafrarrasida enfentillan entire gam
Minimum	7.3000E-5	Minimum of Log Data	-9.525
Maximum	0.0108	Maximum of Log Data	-4.528
Mean	7.0422E-4	Mean of log Data	-8.523
Median	8.3500E-5	SD of log Data	1.323
SD	0.0019		
Coefficient of Variation	2.703		
Skewness	4.722		
F	Relevant UC	: Statistics	
Normal Distribution Test	.S.S.Vant OO	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.372	Shapiro Wilk Test Statistic	0.755
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.935
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	0.000
95% Student's-t UCL	0.0012	95% H-UCL	ی.9022E

95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.001
95% Adjusted-CLT UCL	0.0014	97.5% Chebyshev (MVUE) UCL	0.001
95% Modified-t UCL	0.0012	99% Chebyshev (MVUE) UCL	0.001
Gamma Distribution Test	***************************************	Data Distribution	rodotas, ramelo antidatas lat
k star (bias corrected)	0.479	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.0014		
nu star	34.46		
Approximate Chi Square Value (.05)	22.04	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.001
Adjusted Chi Square Value	21.58	95% Jackknife UCL	0.001
		95% Standard Bootstrap UCL	0.001
Anderson-Darling Test Statistic	4.944	95% Bootstrap-t UCL	0.002
Anderson-Darling 5% Critical Value	0.812	95% Hall's Bootstrap UCL	0.003
Kolmogorov-Smirnov Test Statistic	0.31	95% Percentile Bootstrap UCL	0.001
Kolmogorov-Smirnov 5% Critical Value	0.155	95% BCA Bootstrap UCL	0.001
ata not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.002
		97.5% Chebyshev(Mean, Sd) UCL	0.002
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.003
95% Approximate Gamma UCL	0.0011		
95% Adjusted Gamma UCL	0.0011		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.003
or 1/2 DL (acenaphthene)			
	General Sta		
or 1/2 DL (acenaphthene) Number of Valid Samples	General Sta	atistics Number of Unique Samples	19
			19
Number of Valid Samples		Number of Unique Samples	19
Number of Valid Samples Raw Statistics	36	Number of Unique Samples Log-transformed Statistics	
Number of Valid Samples Raw Statistics Minimum	0.0049	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	-5.3
Number of Valid Samples Raw Statistics Minimum Maximum	0.0049 0.157	Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-5.3 -1.852 -4.898
Number of Valid Samples Raw Statistics Minimum Maximum Mean	0.0049 0.157 0.0142	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.3 -1.852 -4.898
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	0.0049 0.157 0.0142 0.0055	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.3 -1.852 -4.898
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	0.0049 0.157 0.0142 0.0055 0.03	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.3 -1.852
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0049 0.157 0.0142 0.0055 0.03 2.115 4.095	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-5.3 -1.852 -4.898
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0049 0.157 0.0142 0.0055 0.03 2.115	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Statistics	-5.3 -1.852 -4.898
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0049 0.157 0.0142 0.0055 0.03 2.115 4.095	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test	-5.3 -1.852 -4.898 0.825
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Final Point Point Statistic Shapiro Wilk Test Statistic	0.0049 0.157 0.0142 0.0055 0.03 2.115 4.095 Relevant UCL	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic	-5.3 -1.852 -4.898 0.829
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0049 0.157 0.0142 0.0055 0.03 2.115 4.095	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test	-5.3 -1.852 -4.898 0.829
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.0049 0.157 0.0142 0.0055 0.03 2.115 4.095 Relevant UCL	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	-5.3 -1.852 -4.898 0.829
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Finance of the statistic of the stati	0.0049 0.157 0.0142 0.0055 0.03 2.115 4.095 Relevant UCL	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	-5.3 -1.852 -4.898 0.829
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	0.0049 0.157 0.0142 0.0055 0.03 2.115 4.095 Relevant UCL	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	-5.3 -1.852 -4.898 0.823 -4.898 0.933
Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	0.0049 0.157 0.0142 0.0055 0.03 2.115 4.095 Relevant UCL 0.345 0.935	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution	-5.3 -1.852 -4.898 0.825 0.489 0.935
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	0.0049 0.157 0.0142 0.0055 0.03 2.115 4.095 Relevant UCL 0.345 0.935	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	-5.3 -1.852 -4.898
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.0049 0.157 0.0142 0.0055 0.03 2.115 4.095 Relevant UCL 0.345 0.935	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-5.3 -1.852 -4.898 0.825
Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness Final Statistic Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	0.0049 0.157 0.0142 0.0055 0.03 2.115 4.095 Relevant UCL 0.345 0.935 0.0227	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-5.3 -1.85 -4.89 0.82 0.44 0.93

k star (bias corrected)	0.85	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.0167		and the Processing and Andrew Place and
nu star	61.21		
Approximate Chi Square Value (.05)	44.22	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.022
Adjusted Chi Square Value	43.56	95% Jackknife UCL	0.022
		95% Standard Bootstrap UCL	0.022
Anderson-Darling Test Statistic	9.363	95% Bootstrap-t UCL	0.052
Anderson-Darling 5% Critical Value	0.781	95% Hall's Bootstrap UCL	0.056
Kolmogorov-Smirnov Test Statistic	0.497	95% Percentile Bootstrap UCL	0.022
Kolmogorov-Smirnov 5% Critical Value	0.152	95% BCA Bootstrap UCL	0.027
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.036
		97.5% Chebyshev(Mean, Sd) UCL	0.045
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.064
95% Approximate Gamma UCL	0.0197		anit dan primary in the second
95% Adjusted Gamma UCL	0.02		
Potential UCL to Use	I	Use 95% Chebyshev (Mean, Sd) UCL	0.036
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	те станов в Авдерия по подовор в Институт в Сорон (подра в подра в подовор в подовор в подовор в подовор в под	
lesult or 1/2 DL (aluminum)			
	didahahaman muumma 2-1		
	General S	Statistics	\$1.01.00.00.00.00.00.\$1.00.\$1.00.8
Number of Valid Samples	36	Number of Unique Samples	32
	1		
Raw Statistics	***************************************	Log-transformed Statistics	(
Minimum	1810	Minimum of Log Data	7.501
Maximum	18300	Maximum of Log Data	9.815
Mean	11971	. Mean of log Data	9.317
Median	11700	SD of log Data	0.437
SD	3979		w-101-104-14-15-11-11-11-11-11-11-11-11-11-11-11-11-
Coefficient of Variation	0.332		***************************************
Skewness	-0.25		
	Relevant UC	2 Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.962	Shapiro Wilk Test Statistic	0.833
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.935
Data appear Normal at 5% Significance Level	0.000	Data not Lognormal at 5% Significance Level	0.000
Dad appear Normal at 0 % Organication Love		Data for Edgliottial at 070 Oightication Editor	
Assuming Normal Distribution		Assuming Lognormal Distribution	~************************************
95% Student's-t UCL	13092	95% H-UCL	14053
95% UCLs (Adjusted for Skewness)	10032	95% Chebyshev (MVUE) UCL	16219
	12022	- , , , , , , , , , , , , , , , , , , ,	17956
95% Adjusted-CLT UCL	13032	97.5% Chebyshev (MVUE) UCL	
95% Modified-t UCL	13087	99% Chebyshev (MVUE) UCL	21367
Gamma Distribution Test	1	Data Distribution	
k star (bias corrected)	6.424	Data appear Normal at 5% Significance Level	
Theta Star	1863 '		······································
nu star	462.6		
Approximate Chi Square Value (.05)	413.7	Nonparametric Statistics	2/////
Adjusted Level of Significance	0.0428	95% CLT UCL	13062

			lange of the second
Adjusted Obj Course Ville	A11.0	95% Jackknife UCL	12002
Adjusted Chi Square Value	411.6		13092 13034
Anderson-Darling Test Statistic	0.592	95% Standard Bootstrap UCL 95% Bootstrap-t UCL	13062
Anderson-Darling 1est Statistic Anderson-Darling 5% Critical Value	0.592	95% Hall's Bootstrap UCL	13058
Kolmogorov-Smirnov Test Statistic	0.749		13052
Kolmogorov-Smirnov 5% Critical Value	0.0919	95% BCA Bootstrap UCL	13052
Data appear Gamma Distributed at 5% Significance	1	95% BCA BOOKstrap UCL 95% Chebyshev(Mean, Sd) UCL	14862
Data appear Gamma Distributed at 5% Significance	Levei	97.5% Chebyshev(Mean, Sd) UCL	16113
Assuming Gamma Distribution	aller and a second seco	99% Chebyshev(Mean, Sd) UCL	18569
95% Approximate Gamma UCL	13385	33/8 Chebyshev(Mean, 30) OCL	10003
95% Adjusted Gamma UCL	13453		
33 % Adjusted Gamma OCL	10400		
Potential UCL to Use		Use 95% Student's-t UCL	13092
Result or 1/2 DL (anthracene) Number of Valid Samples	General S	Statistics Number of Unique Samples	24
Raw Statistics		Log-transformed Statistics	Q. 40 Jan - 1980an - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 -
Minimum	0.0037	Minimum of Log Data	-5.594
Maximum	- 0.264	Maximum of Log Data	-1.332
Mean	0.0215	Mean of log Data	-4.761
Median	0.006	SD of log Data	1.024
SD	0.0516		
Coefficient of Variation	2.397		
Skewness	4.003		***************************************
	Contract of the Contract of th		
	Relevant UC		
Normal Distribution Test	0.070	Lognormal Distribution Test	0.004
Shapiro Wilk Test Statistic	0.372	Shapiro Wilk Test Statistic	0.624
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.935
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	den multipalitin et illustrit i illustrit produktion
Assuming Normal Distribution	**************************************	Assuming Lognormal Distribution	
95% Student's-t UCL	0.0361	95% H-UCL	0.022
95% UCLs (Adjusted for Skewness)	0.0001	95% Chebyshev (MVUE) UCL	0.022
95% Adjusted-CLT UCL	0.0418		0.0204
95% Modified-t UCL	0.037	99% Chebyshev (MVUE) UCL	0.0422
	1		
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.623	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	0.0346		-b/-14b.com-a-ventestero
nu star	44.87		· · · · · · · · · · · · · · · · · · ·
Approximate Chi Square Value (.05)	30.5	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.0357
Adjusted Chi Square Value	29.96	95% Jackknife UCL	0.036
	7	95% Standard Bootstrap UCL	0.036
Anderson-Darling Test Statistic	7.709	95% Bootstrap-t UCL	0.0846
Anderson-Darling 5% Critical Value	0.797	95% Hall's Bootstrap UCL	0.0941
Kolmogorov-Smirnov Test Statistic	0.452	95% Percentile Bootstrap UCL	0.037

Kolmogorov-Smirnov 5% Critical Value	0.154	95% BCA Bootstrap UCL	0.043
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.059
		97.5% Chebyshev(Mean, Sd) UCL	0.07
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.10
95% Approximate Gamma UCL	0.0317		
95% Adjusted Gamma UCL	0.0323		ironiiron (privinte are
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.10
esult or 1/2 DL (antimony)			
	General Sta		
Number of Valid Samples	36	Number of Unique Samples	23
Raw Statistics		Log-transformed Statistics	
Minimum	0.095	Minimum of Log Data	-2.354
Maximum	8.09	Maximum of Log Data	2.09
Mean	1.416	Mean of log Data	-0.752
Median	0.125	SD of log Data	1.64
SD	1.779		
Coefficient of Variation	1.256		
Skewness	1.716		and the state of the state of
F	elevant UCL	Statistics	andre proceedings and the fermion
Normal Distribution Test	## Television of the television of television	Lognormal Distribution Test	***************************************
Shapiro Wilk Test Statistic	0.738	Shapiro Wilk Test Statistic	0.73
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.93
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	1.917	95% H-UCL	4.43
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	4.3
95% Adjusted-CLT UCL	1.994	97.5% Chebyshev (MVUE) UCL	5.45
95% Modified-t UCL	1.931	99% Chebyshev (MVUE) UCL	7.69
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.538	Data do not follow a Discernable Distribution (0.05)
Theta Star	2.632		
nu star	38.74		
Approximate Chi Square Value (.05)	25.48	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	1.90
Adjusted Chi Square Value	25	95% Jackknife UCL	1.9
		95% Standard Bootstrap UCL	1.9
Anderson-Darling Test Statistic	4.128	95% Bootstrap-t UCL	2.06
Anderson-Darling 5% Critical Value	0.806	95% Hall's Bootstrap UCL	2.16
Kolmogorov-Smirnov Test Statistic	0.349	95% Percentile Bootstrap UCL	1.93
Kolmogorov-Smirnov 5% Critical Value	0.155	95% BCA Bootstrap UCL	2.03
Data not Gamma Distributed at 5% Significance Le	/el	95% Chebyshev(Mean, Sd) UCL	2.7
		97.5% Chebyshev(Mean, Sd) UCL	3.26
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	4.36
95% Approximate Gamma UCL	2.152	and the second s	

000/ A.f. 1.10	0.405		7.0
95% Adjusted Gamma UCL	2.195		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	4.36
	ii		
esult or 1/2 DL (aroclor-1254)			
	General Stat	istics	MMINIMAN
Number of Valid Samples	36	Number of Unique Samples	34
Raw Statistics	•	Log-transformed Statistics	\$100 min and 1770 min to high
Minimum	0.0019	Minimum of Log Data	-6.269
Maximum	0.0938	Maximum of Log Data	-2.367
Mean	0.0056	Mean of log Data	-5.848
Median	0.0021	SD of log Data	0.76
SD	0.0154		
Coefficient of Variation	2.735		
Skewness	5.714		
Normal Distribution Test	elevant UCL S	Statistics Lognormal Distribution Test	ing and the second
Shapiro Wilk Test Statistic	0.254	Shapiro Wilk Test Statistic	0.55
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.93
Data not Normal at 5% Significance Level	0.000	Data not Lognormal at 5% Significance Level	
Data not resimilate to a significance core			
Assuming Normal Distribution		Assuming Lognormal Distribution	J. J. G.
95% Student's-t UCL	0.0099	95% H-UCL	0.00
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.00
95% Adjusted-CLT UCL	0.0124	97.5% Chebyshev (MVUE) UCL	0.00
95% Modified-t UCL	0.0104	99% Chebyshev (MVUE) UCL	0.00
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.826	Data do not follow a Discernable Distribution (0.05)
Theta Star	0.0068		
nu star	59.44		
Approximate Chi Square Value (.05)	42.71	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.00
Adjusted Chi Square Value	42.07	95% Jackknife UCL	0.00
The state of the s		95% Standard Bootstrap UCL	0.00
Anderson-Darling Test Statistic	8.285	95% Bootstrap-t UCL	0.04
Anderson-Darling 5% Critical Value	0.782	95% Hall's Bootstrap UCL	0.03
Kolmogorov-Smirnov Test Statistic	0.394	95% Percentile Bootstrap UCL	0.01
Kolmogorov-Smirnov 5% Critical Value	0.152	95% BCA Bootstrap UCL	0.01
Data not Gamma Distributed at 5% Significance Lev	el	95% Chebyshev(Mean, Sd) UCL	0.01
		97.5% Chebyshev(Mean, Sd) UCL	0.02
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.03
95% Approximate Gamma UCL	0.0078		
95% Adjusted Gamma UCL	0.0079		
 	· ·		

	^I	Statistics	
Number of Valid Samples	36	Number of Unique Samples	32
David Markinski			
Raw Statistics		Log-transformed Statistics	
Minimum	0.105	Minimum of Log Data	-2.254
Maximum	5.69	Maximum of Log Data	1.73
Median Median	2.573 2.53	Mean of log Data SD of log Data	0.67
` SD	2.55 1.369	SD OI IOY DAIA	0.90
Coefficient of Variation	0.532		
Skewness	0.332		
	olovont III	CL Statistics	***************************************
Normal Distribution Test	cicvatit U	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.938	Shapiro Wilk Test Statistic	0.73
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.93
Data appear Normal at 5% Significance Level	**************************************	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	2.959	95% H-UCL	4.6
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	5.57
95% Adjusted-CLT UCL	2.959	97.5% Chebyshev (MVUE) UCL	6.65
95% Modified-t UCL	2.96	99% Chebyshev (MVUE) UCL	8.77
Gamma Distribution Test	enchant factor of American for the factor of	Data Distribution	- Luce o norther drawn are
k star (bias corrected)	1.84	Data appear Normal at 5% Significance Level	
Theta Star	1.399		
nu star	132.5		man-man-man-
Approximate Chi Square Value (.05)	106.9	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	2.94
Adjusted Chi Square Value	105.8	95% Jackknife UCL	2.95
		95% Standard Bootstrap UCL	2,93
Anderson-Darling Test Statistic	2.399	95% Bootstrap-t UCL	2.95
Anderson-Darling 5% Critical Value	0.76	95% Hall's Bootstrap UCL	2.96
Kolmogorov-Smirnov Test Statistic	0.231	95% Percentile Bootstrap UCL	2.93
Kolmogorov-Smirnov 5% Critical Value	0.149	95% BCA Bootstrap UCL	2.96
Data not Gamma Distributed at 5% Significance Lev	el .	95% Chebyshev(Mean, Sd) UCL	3.56
		97.5% Chebyshev(Mean, Sd) UCL	3.99
Assuming Gamma Distribution	ha a manana m	99% Chebyshev(Mean, Sd) UCL	4.84
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	3.189		and an argument of sectors of the
Potential UCL to Use	yeren and a second as a gar	Use 95% Student's-t UCL	2.95
sult or 1/2 DL (barium)	version de la constanta de la		
	General	Statistics	
Number of Valid Samples	36	Number of Unique Samples	31

Raw Statistics		Log-transformed Statistics	
Minimum	46.1	Minimum of Log Data	3.831
Maximum	476	Maximum of Log Data	6.165
Mean	142.1	Mean of log Data	4.802
Median	121	SD of log Data	0.53
SD	95.9		
Coefficient of Variation	0.675		
Skewness	2.311		
F	Relevant UC	:L Statistics	анаминатарыны палужы
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.718	Shapiro Wilk Test Statistic	0.934
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.935
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	our months are a second of consequent
Assuming Normal Distribution		Assuming Lognormal Distribution	aregolisation (published to Presidence) (principle)
95% Student's-t UCL	169.1	95% H-UCL	166.7
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	196.1
95% Adjusted-CLT UCL	174.9	97.5% Chebyshev (MVUE) UCL	220.5
95% Modified-t UCL	170.1	99% Chebyshev (MVUE) UCL	268.6
COR WIGHTING COL		and a second sec	200.0
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	3.139	Data do not follow a Discernable Distribution (0.05	j)
Theta Star	45.26		
nu star	226		, yes, 11(1), mana taga and an an design of a second
Approximate Chi Square Value (.05)	192.2	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	168.4
Adjusted Chi Square Value	190.8	95% Jackknife UCL	169.1
Adjusted Oil Oquale Value	100.0	95% Standard Bootstrap UCL	168
Anderson Douling Toot Statistic	1.456	95% Bootstrap-t UCL	180.8
Anderson-Darling Test Statistic			
Anderson-Darling 5% Critical Value	0.753	95% Hall's Bootstrap UCL	182.1
Kolmogorov-Smirnov Test Statistic	0.199	95% Percentile Bootstrap UCL	168.2
Kolmogorov-Smirnov 5% Critical Value	0.148	95% BCA Bootstrap UCL	175.1
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	211.7
		97.5% Chebyshev(Mean, Sd) UCL	241.9
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	301.1
95% Approximate Gamma UCL	167.1		
95% Adjusted Gamma UCL	168.3		
Potential UCL to Use	HIP-RAFAR-LESS AND ASSESSMENT OF THE SECOND	Use 95% Chebyshev (Mean, Sd) UCL	211.7
i Otential OOL IO USE		OSE 30/0 Chebyshev (Wedni, 30) UCL	411./
ılt or 1/2 DL (benzo(a)anthracene)			
	attribute de la constantina della constantina de		
Number of Valid Samples	General S	Statistics Number of Unique Samples	25
Number of Valid Samples		Trumper of Offique Samples	
Raw Statistics		Log-transformed Statistics	
Minimum	0.0025	Minimum of Log Data	-5.985
Maximum	1.18	Maximum of Log Data	0.166
	0.000		4 000
Mean	0.068	Mean of log Data	-4.862

SD	0.239		
Coefficient of Variation	3.512		
Skewness	4.117		,,
		-	
· R	elevant UCL	Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.304	Shapiro Wilk Test Statistic	0.58
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.93
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.135	95% H-UCL	0.0
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0
95% Adjusted-CLT UCL	0.163	97.5% Chebyshev (MVUE) UCL	0.06
95% Modified-t UCL	0.14	99% Chebyshev (MVUE) UCL	0.08
	VIII.		
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.307	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.222		,
nu star	22.1		
Approximate Chi Square Value (.05)	12.41	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.13
Adjusted Chi Square Value	12.08	95% Jackknife UCL	0.1
Adjusted off oquare value	12.00	95% Standard Bootstrap UCL	0.1
Anderson-Darling Test Statistic	9.41	95% Bootstrap-t UCL	0.49
Anderson-Darling Fest Statistic	0.853	95% Hall's Bootstrap UCL	0.4
Kolmogorov-Smirnov Test Statistic	0.502	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value		,	0.1.
	0.159	95% BCA Bootstrap UCL	
Data not Gamma Distributed at 5% Significance Lev	el	95% Chebyshev(Mean, Sd) UCL	0.24
		97.5% Chebyshev(Mean, Sd) UCL	0.3
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.40
95% Approximate Gamma UCL	0.121		
95% Adjusted Gamma UCL	0.124		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.40
1 00011111 001 10 000		Gac as it Griedyshiev (inicall, etc.) Co.	V. T.
ult or 1/2 DL (benzo(a)pyrene)	•••••••••••••••••••••••••••••••••••••••		gy - manned the reference
	General Sta	tistics	
Number of Valid Samples	36	Number of Unique Samples	28
Raw Statistics		Log-transformed Statistics	
Minimum	0.0045	Minimum of Log Data	-5.40
Maximum	1.42	Maximum of Log Data	0.3
Mean	0.0922	Mean of log Data	-4.33
Median	0.0056	SD of log Data	1.62
SD	0.278		
301			
Coefficient of Variation	3.017		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.361	Shapiro Wilk Test Statistic	0.651
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.935
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.171	95% H-UCL	0.117
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.115
95% Adjusted-CLT UCL	0.203	97.5% Chebyshev (MVUE) UCL	0.145
95% Modified-t UCL	0.176	99% Chebyshev (MVUE) UCL	0.205
·			
Gamma Distribution Test		Data Distribution	Actual fragmental Secure of Printed Secure Control of Secure Contr
k star (blas corrected)	0.335	Data do not follow a Discernable Distribution (0.05	i)
Theta Star	0.275		artina berekaldak di karen (AM-1764) d
nu star	24.15		
Approximate Chi Square Value (.05)	13.96	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.169
Adjusted Chi Square Value	13.61	95% Jackknife UCL	0.171
		95% Standard Bootstrap UCL	0.168
Anderson-Darling Test Statistic	6.99	95% Bootstrap-t UCL	0.5
Anderson-Darling 5% Critical Value	0.847	95% Hall's Bootstrap UCL	0.495
Kolmogorov-Smirnov Test Statistic	0.422	95% Percentile Bootstrap UCL	0.175
Kolmogorov-Smirnov 5% Critical Value	0.158	95% BCA Bootstrap UCL	0.217
Data not Gamma Distributed at 5% Significance Lev	vel	95% Chebyshev(Mean, Sd) UCL	0.294
		97.5% Chebyshev(Mean, Sd) UCL	0.382
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.554
95% Approximate Gamma UCL	0.16		
95% Adjusted Gamma UCL	0.164		Light Control of the
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.554
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		na gara naga a mara manana manga banasai an shirebibi ka ka
	***************************************		
Result or 1/2 DL (benzo(b)fluoranthene)			
			***************************************
Number of Valid Occupies	General S		20
Number of Valid Samples	36	Number of Unique Samples	32
Raw Statistics		Log-transformed Statistics	
Minimum	0.0036	_	-5.625
Maximum	1.62	Maximum of Log Data	0.482
	0.12	Mean of log Data	-4.074
Mean		_	
Median SD	0.0062 0.319	SD of log Data	1.886
Coefficient of Variation	2.649		
Skewness	3.981		
Skewiless	J.301		
ח	Relevant UC	1 Statistics	
Normal Distribution Test	Cicvaint UC	Lognormal Distribution Test	-14: 14:
Shapiro Wilk Test Statistic	0.412	Shapiro Wilk Test Statistic	0.774
Shapiro Wilk Test Statistic	0.412	Shapiro Wilk Critical Value	0.774
Data not Normal at 5% Significance Level	0.555	Data not Lognormal at 5% Significance Level	0.303
Data not recinial at the organicalice Level		Data not Lognormal at 0 % Significance Level	, - <del>                                    </del>

Assuming Normal Distribution 95% Student's-t UCL			
OE0/ Ox		Assuming Lognormal Distribution	
	_ 0.21	95% H-UCL	0.315
95% UCLs (Adjusted for Skewness)	,	95% Chebyshev (MVUE) UCL	0.257
95% Adjusted-CLT UCL	0.245	97.5% Chebyshev (MVUE) UCL	0.329
95% Modified-t UCL	0.216	99% Chebyshev (MVUE) UCL	0.471
Gamma Distribution Test		Data Distribution	
k star (bias corrected	) 0.334	Data do not follow a Discernable Distribution (0.05)	
Theta Sta	r 0.36		ir saaraa va giid ka dastaba addaaddaad
nu sta	r 24.08		
Approximate Chi Square Value (.05)	13.91	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.208
Adjusted Chi Square Value	13.56	95% Jackknife UCL	0.21
		95% Standard Bootstrap UCL	0.207
Anderson-Darling Test Statistic	4.213	95% Bootstrap-t UCL	0.469
Anderson-Darling 5% Critical Value	0.847	95% Hall's Bootstrap UCL	0.615
Kolmogorov-Smirnov Test Statistic	0.321	95% Percentile Bootstrap UCL	0.214
Kolmogorov-Smirnov 5% Critical Value	0.158	95% BCA Bootstrap UCL	0.267
Data not Gamma Distributed at 5% Significance L	.evel	95% Chebyshev(Mean, Sd) UCL	0,352
and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o		97.5% Chebyshev(Mean, Sd) UCL	0.452
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.649
95% Approximate Gamma UCL	. 0.208		11d1 les de 1990 - Phys 114(, es me
95% Adjusted Gamma UCL	. 0.214		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.649
	General Stat		de gland i jarren blitt (* blandskart i jarre
Number of Valid Samples		Number of Unique Samples	
	and a mercury measure were measured annual		29
Barre Chatian		Les transformed Challeties	29
Raw Statistics	- L 0 0046	Log-transformed Statistics	
Minimun		Minimum of Log Data	-5.368
Minimun Maximun	n 1.28	Minimum of Log Data  Maximum of Log Data	-5.368 0.247
Minimun Maximun Meal	n 1.28 n 0.0961	Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.368 0.247 -4.016
Minimun Maximun Meal Mediai	n 1.28 n 0.0961 n 0.0058	Minimum of Log Data  Maximum of Log Data	-5.368 0.247 -4.016
Minimun Maximun Meal Mediar	n 1.28 n 0.0961 n 0.0058 O 0.24	Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.368 0.247 -4.016
Minimun Maximun Meal Medial SI Coefficient of Variation	n 1.28 n 0.0961 n 0.0058 D 0.24 n 2.497	Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.368 0.247 -4.016
Minimun Maximun Meal Mediar	n 1.28 n 0.0961 n 0.0058 O 0.24 n 2.497	Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.368 0.247
Minimun  Maximun  Meai  Median  SI  Coefficient of Variation  Skewness	n 1.28 n 0.0961 n 0.0058 D 0.24 n 2.497	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-5.368 0.247 -4.016
Minimun  Maximun  Meal  Medial  St  Coefficient of Variation  Skewness  Normal Distribution Test	n 1.28 n 0.0961 n 0.0058 D 0.24 n 2.497 s 4.019	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  Statistics  Lognormal Distribution Test	-5.368 0.247 -4.016 1.685
Minimun  Maximun  Meal  Medial  SI  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic	n 1.28 n 0.0961 n 0.0058 D 0.24 n 2.497 s 4.019	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-5.368 0.247 -4.016 1.685
Minimun  Maximun  Meal  Medial  St  Coefficient of Variation  Skewness  Normal Distribution Test	n 1.28 n 0.0961 n 0.0058 D 0.24 n 2.497 s 4.019	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  Statistics  Lognormal Distribution Test	-5.368 0.247 -4.016 1.685
Minimun  Maximun  Meal  Medial  SI  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level	n 1.28 n 0.0961 n 0.0058 D 0.24 n 2.497 s 4.019	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level	-5.368 0.247 -4.016 1.685
Minimun  Maximun  Meal  Medial  St  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	n 1.28 n 0.0961 n 0.0058 D 0.24 n 2.497 s 4.019 Relevant UCL S	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	-5.368 0.247 -4.016 1.688 0.756 0.938
Minimun  Maximun  Meal  Medial  SI  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	n 1.28 n 0.0961 n 0.0058 D 0.24 n 2.497 s 4.019 Relevant UCL S	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	-5.368 0.247 -4.016 1.685 0.756 0.935
Minimun  Maximun  Meal  Medial  St  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	n 1.28 n 0.0961 n 0.0058 D 0.24 n 2.497 s 4.019 P Relevant UCL S 0.935	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	-5.368 0.247 -4.016 1.685 0.756 0.935

	1		
Gamma Distribution Test	- E-101.010 M 110.010  Data Distribution		
k star (bias corrected)	0.38	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.253		
nu star	27.35		
Approximate Chi Square Value (.05)	16.42	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.16
Adjusted Chi Square Value	16.03	95% Jackknife UCL	0.16
	***************************************	95% Standard Bootstrap UCL	0.16
Anderson-Darling Test Statistic	4.565	95% Bootstrap-t UCL	0.28
Anderson-Darling 5% Critical Value	0.836	95% Hall's Bootstrap UCL	0.40
Kolmogorov-Smirnov Test Statistic	0.351	95% Percentile Bootstrap UCL	0.17
Kolmogorov-Smirnov 5% Critical Value	0.157	95% BCA Bootstrap UCL	0.20
Data not Gamma Distributed at 5% Significance Lev	/el	95% Chebyshev(Mean, Sd) UCL	0.27
		97.5% Chebyshev(Mean, Sd) UCL	0.34
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.49
95% Approximate Gamma UCL	0.16		
95% Adjusted Gamma UCL	0.164		
	***************************************		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.49
	General Stat		
Number of Valid Samples	General Stat	istics  Number of Unique Samples	25
Number of Valid Samples Raw Statistics			25
		Number of Unique Samples	25 -5.203
Raw Statistics	36	Number of Unique Samples  Log-transformed Statistics	
Raw Statistics Minimum	0.0055	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	-5.203
Raw Statistics  Minimum  Maximum	0.0055 0.799	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-5.203 -0.224 -4.26
Raw Statistics  Minimum  Maximum  Mean	0.0055 0.799 0.0601	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.203 -0.224 -4.26
Raw Statistics  Minimum  Maximum  Mean  Median	0.0055 0.799 0.0601 0.0085	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.20 -0.22 -4.26
Raw Statistics  Minimum  Maximum  Mean  Median  SD	0.0055 0.799 0.0601 0.0085 0.169	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.203 -0.224 -4.26
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0055 0.799 0.0601 0.0085 0.169 2.819 3.875	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-5.203 -0.224
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0055 0.799 0.0601 0.0085 0.169 2.819	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-5.203 -0.224 -4.26
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0055 0.799 0.0601 0.0085 0.169 2.819 3.875	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-5.203 -0.224 -4.26
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test	0.0055 0.799 0.0601 0.0085 0.169 2.819 3.875	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	-5.203 -0.224 -4.26 1.29
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic	0.0055 0.799 0.0601 0.0085 0.169 2.819 3.875	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-5.203 -0.224 -4.26 1.29
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	0.0055 0.799 0.0601 0.0085 0.169 2.819 3.875	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	-5.203 -0.224 -4.26 1.29
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level	0.0055 0.799 0.0601 0.0085 0.169 2.819 3.875	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level	-5.203 -0.224 -4.26 1.29
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	0.0055 0.799 0.0601 0.0085 0.169 2.819 3.875 elevant UCL S	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	-5.203 -0.224 -4.26 1.29 0.62 0.93
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	0.0055 0.799 0.0601 0.0085 0.169 2.819 3.875 elevant UCL S	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	-5.203 -0.224 -4.26 1.29 0.62 0.93
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness  R  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.0055 0.799 0.0601 0.0085 0.169 2.819 3.875 elevant UCL S 0.357 0.935	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-5.203 -0.224 -4.26 1.29 0.62 0.93
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness  R  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL  95% Modified-t UCL	0.0055 0.799 0.0601 0.0085 0.169 2.819 3.875 elevant UCL S 0.357 0.935	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% Chebyshev (MVUE) UCL  97.5% Chebyshev (MVUE) UCL  99% Chebyshev (MVUE) UCL	-5.203 -0.224 -4.26 1.29 0.62 0.93
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL  95% Modified-t UCL  Gamma Distribution Test	0.0055 0.799 0.0601 0.0085 0.169 2.819 3.875 elevant UCL S 0.357 0.935 0.108 0.126 0.111	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL  99% Chebyshev (MVUE) UCL  99% Chebyshev (MVUE) UCL	-5.20 -0.22 -4.26 1.29 0.62 0.93
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness  R  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL  95% Modified-t UCL	0.0055 0.799 0.0601 0.0085 0.169 2.819 3.875 elevant UCL S 0.357 0.935	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% Chebyshev (MVUE) UCL  97.5% Chebyshev (MVUE) UCL  99% Chebyshev (MVUE) UCL	-5.20 -0.22 -4.26 1.29 0.66 0.96 0.06 0.06 0.06

	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		
Approximate Chi Square Value (.05)	19.12	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.107
Adjusted Chi Square Value	18.7	95% Jackknife UCL	0.108
		95% Standard Bootstrap UCL	0.104
Anderson-Darling Test Statistic	7.875	95% Bootstrap-t UCL	0.283
Anderson-Darling 5% Critical Value	0.824	95% Hail's Bootstrap UCL	0.309
Kolmogorov-Smirnov Test Statistic	0.467	95% Percentile Bootstrap UCL	0.106
Kolmogorov-Smirnov 5% Critical Value	0.156	95% BCA Bootstrap UCL	0.13
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.183
	**************************************	97.5% Chebyshev(Mean, Sd) UCL	0.236
Assuming Gamma Distribution	dedigina darem ererinen araba.	99% Chebyshev(Mean, Sd) UCL	0.341
95% Approximate Gamma UCL	0.0968		
95% Adjusted Gamma UCL	0.099		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.341
esult or 1/2 DL (beryllium)			
	General S	Statistics	
Number of Valid Samples	36	Number of Unique Samples	28
Raw Statistics	(-tabellaber, -t, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Log-transformed Statistics	
Minimum	0.013	Minimum of Log Data	-4.343
Maximum	2.88	Maximum of Log Data	1.058
Mean	0.752	Mean of log Data	-0.509
Median	0.695	SD of log Data	0.881
SD	0.461		
Coefficient of Variation	0.613		
Skewness	2.77		
F	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	····
Shapiro Wilk Test Statistic	0.759	Shapiro Wilk Test Statistic	0.702
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.935
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	0.000	Assuming Lognormal Distribution	1 0 1
95% Student's-t UCL	0.882	95% H-UCL	1.24
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.503
95% Adjusted-CLT UCL	0.916	97.5% Chebyshev (MVUE) UCL	1.776
95% Modified-t UCL	0.888	99% Chebyshev (MVUE) UCL	2.312
Gamma Distribution Test		Data Distribution	***************************************
k star (bias corrected)	2.199	Data do not follow a Discernable Distribution (0.05	
Theta Star	0.342		
nu star	158.3		·4····4·1·1·4·4···
Approximate Chi Square Value (.05)	130.2	Nonparametric Statistics	
Adjusted Level of Significance	0.0428		0.879
Adjusted Chi Square Value	129.1	95% Jackknife UCL	0.882
	and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t	95% Standard Bootstrap UCL	0.874
Anderson-Darling Test Statistic	2.229	95% Bootstrap-t UCL	0.94

Anderson-Darling 5% Critical Value	0.757	95% Hall's Bootstrap UCL	1.53
Kolmogorov-Smirnov Test Statistic	0.204	95% Percentile Bootstrap UCL	0.885
Kolmogorov-Smirnov 5% Critical Value	0.148	95% BCA Bootstrap UCL	0.921
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	1.087
		97.5% Chebyshev(Mean, Sd) UCL	1.232
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.516
95% Approximate Gamma UCL	0.914		
95% Adjusted Gamma UCL	0.923		,
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	1.087
Result or 1/2 DL (bis(2-ethylhexyl)phthalate)			
	General	Obstitution	
Number of Valid Samples	36	Number of Unique Samples	34
Raw Statistics		Log-transformed Statistics	
Minimum	0.0065		-5.036
Maximum	0.0003	Maximum of Log Data	-1.431
Mean	0.239		-3.438
Median	0.0428	- Colorin and the annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annua	0.703
			0.703
SD SD	0.0446		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Coefficient of Variation	1.041		
Skewness	3.194		
	Relevant UC	CL Statistics	
Normal Distribution Test	# 884 C CC 1 1 - 1 4 - 1 4 1 1 1 1 1 1 1 1 1 1 1 1	Lognormal Distribution Test	an and an easy of any shape of a second and a second and a second and a second and a second and a second and a
Shapiro Wilk Test Statistic	0.598	Shapiro Wilk Test Statistic	0.925
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.935
Data not Normal at 5% Significance Level	an defent, for the first operator to the characteristics.	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	**************************************	Assuming Lognormal Distribution	
95% Student's-t UCL	0.0554	95% H-UCL	0.052
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.063
95% Adjusted-CLT UCL	0.0593	97.5% Chebyshev (MVUE) UCL	0.073
95% Modified-t UCL	0.0561	99% Chebyshev (MVUE) UCL	0.092
Gamma Distribution Test		Data Distribution	·
k star (bias corrected)	1.75	Data do not follow a Discernable Distribution (0.08	5)
Theta Star	0.0245		
nu star	126		
Approximate Chi Square Value (.05)	101.1	Nonparametric Statistics	
Adjusted Level of Significance	0.0428		0.055
Adjusted Chi Square Value	100.1	95% Jackknife UCL	0.055
,	***************************************	95% Standard Bootstrap UCL	0.054
Anderson-Darling Test Statistic	2.221	95% Bootstrap-t UCL	0.067
Anderson-Darling 5% Critical Value	0.761	95% Hall's Bootstrap UCL	0.069
Kolmogorov-Smirnov Test Statistic	0.701	95% Percentile Bootstrap UCL	0.056
Kolmogorov-Smirnov 7est statistic	0.22	95% BCA Bootstrap UCL	0.059
Data not Gamma Distributed at 5% Significance Le		95% BCA BOOKSTAP UCL 95% Chebyshev(Mean, Sd) UCL	0.039
Data not Gamma Distributed at 5% Significance Le	vel		
		97.5% Chebyshev(Mean, Sd) UCL	0.08

		19.7.18 2.4.1.11 (A. 17.4.1)	
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.117
95% Approximate Gamma UCL	0.0534		
95% Adjusted Gamma UCL	0.054		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.0753
FOLEHILIAI OOL (O OSE		use 95% Chebyshev (Wedn, 3u) OCL	0.073
sult or 1/2 DL (boron)			мина-поменована-по-
	General S	tatistics	
Number of Valid Samples	36	Number of Unique Samples	35
Raw Statistics		Log-transformed Statistics	
Minimum	0.555	Minimum of Log Data	-0.589
Maximum	39.2	Maximum of Log Data	3.669
Mean	7.576	Mean of log Data	1.383
Median	5.27	SD of log Data	1.32
SD	7.826		, . V
Coefficient of Variation	1.033		
Skewness	2.044		
	televant UCL		
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.801	Shapiro Wilk Test Statistic	0.863
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.935
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	makers, webst-tit to- establish
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	9.779	95% H-UCL	17.75
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	20.02
95% Adjusted-CLT UCL	10.2	97.5% Chebyshev (MVUE) UCL	24.73
95% Modified-t UCL	9.853	99% Chebyshev (MVUE) UCL	33.99
Gamma Distribution Test		Data Distribution	Marian
k star (bias corrected)	0.852	Data do not follow a Discernable Distribution (0.05)	)
Theta Star	8.892		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
nu star	61.34		
Approximate Chi Square Value (.05)	44.33	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	9.721
Adjusted Chi Square Value	43.67	95% Jackknife UCL	9.779
		95% Standard Bootstrap UCL	9.629
Anderson-Darling Test Statistic	1.037	95% Bootstrap-t UCL	10.46
Anderson-Darling 5% Critical Value	0.781	95% Hall's Bootstrap UCL	10.98
Kolmogorov-Smirnov Test Statistic	0.18	95% Percentile Bootstrap UCL	9.74
Kolmogorov-Smirnov 5% Critical Value	0.152	95% BCA Bootstrap UCL	10.28
Data not Gamma Distributed at 5% Significance Lev	i	95% Chebyshev(Mean, Sd) UCL	13.26
		97.5% Chebyshev(Mean, Sd) UCL	15.72
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	20.55
95% Approximate Gamma UCL	10.48	33 /a Onedyshev(weah, ou) OCL	
95% Adjusted Gamma UCL	10.48		· Main
D-1-35-1101		The coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the coop of the co	- 20 rc
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	20.55

t or 1/2 DL (bromoform)	urana arangan kanasan		
	General	Statistics	11-411-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
Number of Valid Sample	s 19	Number of Unique Samples	19
Raw Statistics	- lo oroof f	Log-transformed Statistics	0.500
Maximu	m 6.8500E-5 m 0.018	Minimum of Log Data  Maximum of Log Data	-9.589 -4.01
Meximu			-8.05
	in 9.2500E-5	SD of log Data	2.05
	D 0.0046		2.0
Coefficient of Variatio			
Skewnes			
		J	
Normal Distribution Test	Relevant U0	CL Statistics Lognormal Distribution Test	***************************************
Shapiro Wilk Test Statisti	c 0.561	Shapiro Wilk Test Statistic	0.68
Shapiro Wilk Critical Valu		Shapiro Wilk Tritical Value	0.90
Data not Normal at 5% Significance Level	0.301	Data not Lognormal at 5% Significance Level	
			w.w
Assuming Normal Distribution	***************************************	Assuming Lognormal Distribution	
95% Student's-t UC	L 0.0042	95% H-UCL	0.02
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.00
95% Adjusted-CLT UC	L 0.0048	97.5% Chebyshev (MVUE) UCL	0.00
95% Modified-t UC	L 0.0043	99% Chebyshev (MVUE) UCL	0.01
Gamma Distribution Test	MINING THE THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE	Data Distribution	
k star (bias corrected	0.32	Data do not follow a Discernable Distribution (0.05)	
Theta Sta	<u> </u>	]	
nu st			***************************************
Approximate Chi Square Value (.05		Nonparametric Statistics	mbus of 18888841184111111111111111111111111111
Adjusted Level of Significance		·	0.00
Adjusted Chi Square Value	- 1	95% Jackknife UCL	0.00
		95% Standard Bootstrap UCL	0.00
Anderson-Darling Test Statistic	2.937	95% Bootstrap-t UCL	0.00
Anderson-Darling 5% Critical Value	0.835	95% Hall's Bootstrap UCL	0.0
Kolmogorov-Smirnov Test Statistic	0.421	95% Percentile Bootstrap UCL	0.00
Kolmogorov-Smirnov 5% Critical Value	0.214	95% BCA Bootstrap UCL	0.00
Data not Gamma Distributed at 5% Significance I	_evel	95% Chebyshev(Mean, Sd) UCL	0.00
		97.5% Chebyshev(Mean, Sd) UCL	0.00
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0
95% Approximate Gamma UCI	. 0.0053		Petropalation in the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract
95% Adjusted Gamma UCI	0.0057		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.0

General Statistics

Number of Valid Samples	36	Number of Unique Samples	29
Number of Valid Samples	30	Number of Offique Samples	29
Raw Statistics		Log-transformed Statistics	. 1
Minimum	0.0045	Minimum of Log Data	-5.389
Maximum	0.151	Maximum of Log Data	-1.89
Mean	0.0125	Mean of log Data	-4.877
Median	0.0067	SD of log Data	0.70
SD	0.0255		
Coefficient of Variation	2.039		11-11-V-1-11-1-1-1-1-1-1-1-1-1-1-1-1-1-
Skewness	4.982		
F	Relevant UCI	L Statistics	d geregie ger das sacrad s geogra suppris
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.307	Shapiro Wilk Test Statistic	0.51
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.93
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0197	95% H-UCL	0.01
95% UCLs (Adjusted for Skewness)	0.0107	95% Chebyshev (MVUE) UCL	0.01
95% Adjusted-CLT UCL	0.0233	97.5% Chebyshev (MVUE) UCL	0.01
95% Modified-t UCL	0.0203	99% Chebyshev (MVUE) UCL	0.02
Gamma Distribution Test		Data Distribution	
	1.069		·····
k star (bias corrected)		Data do not follow a Discernable Distribution (0.05	) 
Theta Star	0.0117		***************************************
nu star	76.97	Non-resortia Chatlation	
Approximate Chi Square Value (.05)	57.76	Nonparametric Statistics	0.01
Adjusted Level of Significance	0.0428	95% CLT UCL 95% Jackknife UCL	0.01
Adjusted Chi Square Value	57	95% Standard Bootstrap UCL	0.01
Andones Desline Test Of the	0.004		
Anderson-Darling Test Statistic	8.924	95% Bootstrap-t UCL	0.03
Anderson-Darling 5% Critical Value	0.773	95% Hall's Bootstrap UCL	0.04
Kolmogorov-Smirnov Test Statistic	0.488	95% Percentile Bootstrap UCL	0.02
Kolmogorov-Smirnov 5% Critical Value	0.151	95% BCA Bootstrap UCL	0.02
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.03
		97.5% Chebyshev(Mean, Sd) UCL	0.03
Assuming Gamma Distribution	0.04.07	99% Chebyshev(Mean, Sd) UCL	0.05
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.0167 0.0169		
		Lies OFW Obstack - Advance Odvillo	0.00
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.03
sult or 1/2 DL (cadmium)			
	General S		
Number of Valid Samples	36	Number of Unique Samples	26
Raw Statistics		Log-transformed Statistics	
Minimum	0.003	Minimum of Log Data	-5.80
Maximum	0.8	Maximum of Log Data	-0.22

(m) 中国 大		CONTRACTOR AND AND AND AND AND AND AND AND AND AND	
Mean	0.193	Mean of log Data	-3.263
Median	0.0105	SD of log Data	2.139
SD	0.239		
Coefficient of Variation	1.24		
Skewness	0.849	- Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Cont	
	Relevant UC	L Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.76	Shapiro Wilk Test Statistic	0.786
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.935
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	······································
95% Student's-t UCL	0.26	95% H-UCL	1.572
95% UCLs (Adjusted for Skewness)	J	95% Chebyshev (MVUE) UCL	1.004
95% Adjusted-CLT UCL	0.265	97.5% Chebyshev (MVUE) UCL	1.302
95% Modified-t UCL	0.261	99% Chebyshev (MVUE) UCL	1.887
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.39	Data do not follow a Discernable Distribution (0.05	1
Theta Star	0.494	Date do not follow a Discernable Distribution (c.co	
nu star	28.11		ad t. 16 algebras agrees or september & second baselin
Approximate Chi Square Value (.05)	17.02	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.25
Adjusted Chi Square Value	16.62	95% Jackknife UCL	0.26
	1 10102	95% Standard Bootstrap UCL	0.25
Anderson-Darling Test Statistic	3.561	95% Bootstrap-t UCL	0.26
Anderson-Darling 5% Critical Value	0.833	95% Hall's Bootstrap UCL	0.26
Kolmogorov-Smirnov Test Statistic	0.313	95% Percentile Bootstrap UCL	0.26
Kolmogorov-Smirnov 5% Critical Value	0.157	95% BCA Bootstrap UCL	0.26
Data not Gamma Distributed at 5% Significance Le	1 1	95% Chebyshev(Mean, Sd) UCL	0.36
		97.5% Chebyshev(Mean, Sd) UCL	0.44
Assuming Gamma Distribution	<u> </u>	99% Chebyshev(Mean, Sd) UCL	0.59
95% Approximate Gamma UCL	0.319		
95% Adjusted Gamma UCL	0.326		# 2 r c - 40 · 40 · 40 · 40 · 40 · 40 · 40 · 40
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.59
esult or 1/2 DL (carbon disulfide)			
	den end de seu como de se grandja, des antes de seu que se de		
Number of Valid Samples	General S	tatistics  Number of Unique Samples	19
ramusi di valla daliples		rambel of ornique camples	
Raw Statistics		Log-transformed Statistics	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Minimum	4.4000E-5	Minimum of Log Data	-10.03
Maximum	0.0284	Maximum of Log Data	-3.561
Mean	0.0028	Mean of log Data	-8.197
Median	5.8000E-5	SD of log Data	2.3
SD	1		
Coefficient of Variation	2.34		manage tests because .
Skewness	3.51		

		tatiation	
Normal Distribution Test	Relevant UCL S	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.478	Shapiro Wilk Test Statistic	0.73
Shapiro Wilk Critical Value	0.901	Shapiro Wilk Critical Value	0.90
Data not Normal at 5% Significance Level	0.501	Data not Lognormal at 5% Significance Level	0.00
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0054	95% H-UCL	0.05
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.01
95% Adjusted-CLT UCL	0.0066	97.5% Chebyshev (MVUE) UCL	0.0
95% Modified-t UCL	0.0057	99% Chebyshev (MVUE) UCL	0.0
Gamma Distribution Test		Data Distribution	14 programma par (************************************
k star (bias corrected)	0.284	Data do not follow a Discernable Distribution (0.05)	)
Theta Star	0.01		***************************************
nu star	10.8		
Approximate Chi Square Value (.05)	4.45	Nonparametric Statistics	
Adjusted Level of Significance	0.0369	95% CLT UCL	0.0
Adjusted Chi Square Value	4.098	95% Jackknife UCL	0.0
		95% Standard Bootstrap UCL	0.0
Anderson-Darling Test Statistic	2.428	95% Bootstrap-t UCL	0.0
Anderson-Darling 5% Critical Value	0.845	95% Hall's Bootstrap UCL	0.0
Kolmogorov-Smirnov Test Statistic	0.384	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.215	95% BCA Bootstrap UCL	0.0
Data not Gamma Distributed at 5% Significance Lev	vel	95% Chebyshev(Mean, Sd) UCL	0.0
		97.5% Chebyshev(Mean, Sd) UCL	0.0
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0
95% Approximate Gamma UCL	0.0069		
95% Adjusted Gamma UCL	0.0075		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.0
It or 1/2 DL (chromium)			
	General Stat		
Number of Valid Samples	36	Number of Unique Samples	33
Raw Statistics		Log-transformed Statistics	-p-100-4-4-41-4-11777
Minimum	7.76	Minimum of Log Data	2.0
Maximum	128	Maximum of Log Data	4.8
Mean	17.17	Mean of log Data	2.6
Median	12.8	SD of log Data	0.4
SD	19.6		***************************************
Coefficient of Variation	1.142		(An essential and a second second
Skewness	5.455		
	lalawaat IIOL O	Assistica.	
	(elevantiii - >	dausucs	
Normal Distribution Test	Relevant UCL S	Lognormal Distribution Test	

Shapiro Wilk Critical Value 0.935

Shapiro Wilk Critical Value

0.935

Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	11
Butta not resimilar at 6 % digitalicance 2000		Data not Edginima at 0.0 digimicano Edvar	
Assuming Normal Distribution		Assuming Lognormal Distribution	**************************************
95% Student's-t UCL	22.69	95% H-UCL	18.7
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	21.82
95% Adjusted-CLT UCL	25.72	97.5% Chebyshev (MVUE) UCL	24.38
95% Modified-t UCL	23.18	99% Chebyshev (MVUE) UCL	29.4
Gamma Distribution Test	3	Data Distribution	
k star (bias corrected)	2.545	Data do not follow a Discernable Distribution (0.05)	***************************************
Theta Star	6.745		
nu star	183.3		
Approximate Chi Square Value (.05)	153	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	22.54
Adjusted Chi Square Value	151.7	95% Jackknife UCL	22.69
Aujusted Cill Square Value	101./		22.43
Androon Della Test Obstation	2 640	95% Standard Bootstrap UCL	37.28
Anderson-Darling Test Statistic	3.618	95% Bootstrap-t UCL	
Anderson-Darling 5% Critical Value	0.755	95% Hall's Bootstrap UCL	43.24
Kolmogorov-Smirnov Test Statistic	0.223	95% Percentile Bootstrap UCL	23.43
Kolmogorov-Smirnov 5% Critical Value	0.148	95% BCA Bootstrap UCL	27.01
Data not Gamma Distributed at 5% Significance Lev	/el	95% Chebyshev(Mean, Sd) UCL	31.41
		97.5% Chebyshev(Mean, Sd) UCL	37.57
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	49.67
95% Approximate Gamma UCL	20.57		
95% Adjusted Gamma UCL	20.74		
Potential UCL to Use		Use 95% Student's-t UCL	22.69
		or 95% Modified-t UCL	23.18
esult or 1/2 DL (chrysene)			
	General Stat	ietics	
Number of Valid Samples	36	Number of Unique Samples	33
Raw Statistics		Log-transformed Statistics	
Minimum	0.0040	Minimum of Log Data	-5.502
Maximum	1.3	Maximum of Log Data	0.262
Mean	0.0885	Mean of log Data	-4.382
			-4.382 1.633
Median	0.0050	SD of log Data	1.033
SD	0.265		
Coefficient of Variation	3.001		
Skewness	3.989		
	elevant UCL S		
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.361	Shapiro Wilk Test Statistic	0.683
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.93
Data not Normal at 5% Significance Level	200	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	, magazina a sa
<u>-</u>	į.	5 5	

UEO/    U  = /k 3:=1= 3 f= U  ,		000/ 05-1-1-4-4-4-4-100-1	0.11
95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	0.100	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	0.11
	0.193		
95% Modified-t UCL	0.168	99% Chebyshev (MVUE) UCL	0.2
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.334	Data do not follow a Discernable Distribution (0.05	
Theta Star	0.265		
nu star	24.07		
Approximate Chi Square Value (.05)	13.9	Nonparametric Statistics	and of the special property and the beautiful
Adjusted Level of Significance	0.0428	95% CLT UCL	0.16
Adjusted Chi Square Value	13.55	95% Jackknife UCL	0.16
		95% Standard Bootstrap UCL	0.16
Anderson-Darling Test Statistic	6.548	95% Bootstrap-t UCL	0.4
Anderson-Darling 5% Critical Value	0.847	95% Hall's Bootstrap UCL	0.48
Kolmogorov-Smirnov Test Statistic	0.37	95% Percentile Bootstrap UCL	0.10
Kolmogorov-Smirnov 5% Critical Value	0.158	95% BCA Bootstrap UCL	0.20
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.2
		97.5% Chebyshev(Mean, Sd) UCL	0.3
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.5
95% Approximate Gamma UCL	0.153		
95% Adjusted Gamma UCL	0.157		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.5
It or 1/2 DL (cis-1,2-dichloroethene)			
	General S		10
It or 1/2 DL (cis-1,2-dichloroethene)  Number of Valid Samples	General S	Statistics  Number of Unique Samples	19
	V		19
Number of Valid Samples  Raw Statistics	V	. Number of Unique Samples	
Number of Valid Samples  Raw Statistics	19	Number of Unique Samples  Log-transformed Statistics	-9.88
Number of Valid Samples  Raw Statistics  Minimum	19    5.1000E-5	Log-transformed Statistics  Minimum of Log Data	-9.88 -0.001
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	5.1000E-5 0.999	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-9.88 -0.001 -8.27
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	5.1000E-5 0.999 0.0541	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-9.88 -0.001 -8.27
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	5.1000E-5 0.999 0.0541 6.7000E-5	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-9.88 -0.001 -8.27
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	5.1000E-5 0.999 0.0541 6.7000E-5 0.229	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-9.88 -0.001 -8.27
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	5.1000E-5 0.999 0.0541 6.7000E-5 0.229 4.232 4.356	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-9.88 -0.001 -8.27
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	5.1000E-5 0.999 0.0541 6.7000E-5 0.229 4.232	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-9.88 -0.001 -8.27
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	5.1000E-5 0.999 0.0541 6.7000E-5 0.229 4.232 4.356	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	-9.88 -0.001 -8.27 2.7
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic	5.1000E-5 0.999 0.0541 6.7000E-5 0.229 4.232 4.356 Relevant UCI	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-9.88- -0.001 -8.27- 2.7-
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	5.1000E-5 0.999 0.0541 6.7000E-5 0.229 4.232 4.356	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Critical Value	-9.88 -0.001 -8.27 2.7
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic	5.1000E-5 0.999 0.0541 6.7000E-5 0.229 4.232 4.356 Relevant UCI	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-9.88 -0.001 -8.27 2.7
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level	5.1000E-5 0.999 0.0541 6.7000E-5 0.229 4.232 4.356 Relevant UCI	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level	-9.88 -0.001 -8.27 2.7
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	5.1000E-5 0.999 0.0541 6.7000E-5 0.229 4.232 4.356 Relevant UCI	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	-9.88 -0.001 -8.27 2.7 0.60
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	5.1000E-5 0.999 0.0541 6.7000E-5 0.229 4.232 4.356 Relevant UCI	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	-9.884 -0.001 -8.277 2.77 0.66 0.99
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	5.1000E-5 0.999 0.0541 6.7000E-5 0.229 4.232 4.356 Relevant UCI 0.253 0.901	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-9.884 -0.001 -8.27' 2.7' 0.63 0.90
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL	5.1000E-5 0.999 0.0541 6.7000E-5 0.229 4.232 4.356 Relevant UCI 0.253 0.901	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-9.88- -0.001 -8.27- 2.7- 0.63 0.9- 0.03
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	5.1000E-5 0.999 0.0541 6.7000E-5 0.229 4.232 4.356 Relevant UCI 0.253 0.901	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-9.88 -0.001 -8.27 2.7 0.6 0.9

k star (bias corrected)	0.157	Data do not follow a Discernable Distribution (0.05)	١
Theta Star	0.345		
nu star	5.949		
Approximate Chi Square Value (.05)	1.614	Nonparametric Statistics	
Adjusted Level of Significance	0.0369	95% CLT UCL	0.14
Adjusted Chi Square Value	1,426	95% Jackknife UCL	0.14
		95% Standard Bootstrap UCL	0.13
Anderson-Darling Test Statistic	4.69	95% Bootstrap-t UCL	12.24
Anderson-Darling 5% Critical Value	0.908	95% Hall's Bootstrap UCL	7.38
Kolmogorov-Smirnov Test Statistic	0.426	95% Percentile Bootstrap UCL	0.15
Kolmogorov-Smirnov 5% Critical Value	0.222	95% BCA Bootstrap UCL	0.21
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.28
		97.5% Chebyshev(Mean, Sd) UCL	0.38
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.57
95% Approximate Gamma UCL	0.199		
95% Adjusted Gamma UCL	0.226		
CO. A. A. JUCCOCK GUITHING COL	<b>0.22</b> 0		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.57
sult or 1/2 DL (cobalt)			
Suit Of 172 DE (CODAI)	General S	Statistics	
Number of Valid Samples	36	Number of Unique Samples	36
Number of Valid Samples	30	Number of onlique camples	
Raw Statistics		Log-transformed Statistics	
Minimum	2.81	Minimum of Log Data	1.03
Maximum	10.3	Maximum of Log Data	2.33
Mean	6.318	Mean of log Data	1.80
Median	6.115	SD of log Data	0.3
SD	1.743		
Coefficient of Variation	0.276		
Skewness	0.102		
F	Relevant UC	L Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.982	Shapiro Wilk Test Statistic	0.95
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.93
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	***************************************
95% Student's-t UCL	6.808	95% H-UCL	6.94
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	7.73
95% Adjusted-CLT UCL	6.801	97.5% Chebyshev (MVUE) UCL	8.34
95% Modified-t UCL	6.809	99% Chebyshev (MVUE) UCL	9.53
Gamma Distribution Test		Data Distribution	er forforsprog planted all forbals
k star (bias corrected)	11,41	Data appear Normal at 5% Significance Level	w
Theta Star	0.553		
nu star	821.8	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	
Approximate Chi Square Value (.05)	756.3	Nonparametric Statistics	
Adjusted Level of Significance	0.0428		6.79

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			9 000
Adjusted Chi Square Value	753.4	95% Jackknife UCL	6.808
		95% Standard Bootstrap UCL	6.782
Anderson-Darling Test Statistic	0.303	95% Bootstrap-t UCL	6.811
Anderson-Darling 5% Critical Value	0.748	95% Hall's Bootstrap UCL	6.819
Kolmogorov-Smirnov Test Statistic	0.0941		6.799
Kolmogorov-Smirnov 5% Critical Value	0.147	95% BCA Bootstrap UCL	6.809
Data appear Gamma Distributed at 5% Significance	_evel	95% Chebyshev(Mean, Sd) UCL	7.584
		97.5% Chebyshev(Mean, Sd) UCL	8.132
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	9.208
95% Approximate Gamma UCL	6.865		
95% Adjusted Gamma UCL	6.891		
Potential UCL to Use		Use 95% Student's-t UCL	6.808
Result or 1/2 DL (copper)	General s	Station	
Number of Valid Samples	General 36	Number of Unique Samples	34
Raw Statistics		Log-transformed Statistics	
Minimum	4.59	Minimum of Log Data	1.524
Maximum	200	Maximum of Log Data	5.298
Mean	18.7	Mean of log Data	2.553
Median	10.05	SD of log Data	0.689
SD	31.9		
Coefficient of Variation	1.705		
Skewness	5.536		
-	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	***************************************
Shapiro Wilk Test Statistic	0.347	Shapiro Wilk Test Statistic	0.861
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.935
Data not Normal at 5% Significance Level	PER PER PER PER PER PER PER PER PER PER	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	27.68	95% H-UCL	20.73
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	24.92
95% Adjusted-CLT UCL	32.69	97.5% Chebyshev (MVUE) UCL	28.71
95% Modified-t UCL	28.5	99% Chebyshev (MVUE) UCL	36.16
Gamma Distribution Test	Q-Martin and the company of the continue blocks and	Data Distribution	
k star (bias corrected)	1.37	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	13.65		
nu star	98.64		
Approximate Chi Square Value (.05)	76.73	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	27.45
Adjusted Chi Square Value	75.85	95% Jackknife UCL	27.68
		95% Standard Bootstrap UCL	27.43
Anderson-Darling Test Statistic	2.951	95% Bootstrap-t UCL	50.7
Anderson-Darling 5% Critical Value	0.767	95% Hall's Bootstrap UCL	60.07
Kolmogorov-Smirnov Test Statistic	0.204	95% Percentile Bootstrap UCL	28.98

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Kolmogorov-Smirnov 5% Critical Value	0.15	95% BCA Bootstrap UCL	36.21
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	41.87
		97.5% Chebyshev(Mean, Sd) UCL	51.9
Assuming Gamma Distribution	Accelerations to represent the restriction of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	99% Chebyshev(Mean, Sd) UCL	71.6
95% Approximate Gamma UCL	24.04		
95% Adjusted Gamma UCL	24.32		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	41.87
esult or 1/2 DL (cyclohexane)			
	General S	Statistics	
Number of Valid Samples	19	Number of Unique Samples	19
Raw Statistics		Log-transformed Statistics	
	4.8100E-4	Minimum of Log Data	-7.64
Maximum	<u> </u>		-3.669
Mean			-6.457
Median	6.3000E-4	SD of log Data	1.497
SD	0.0096		
Coefficient of Variation	1.696		
Skewness	1.55		
Normal Distribution Test Shapiro Wilk Test Statistic	Relevant UC	Lognormal Distribution Test  Shapiro Wilk Test Statistic	0,705
Shapiro Wilk Critical Value	0.553	Shapiro Wilk Critical Value	0.703
Data not Normal at 5% Significance Level	0.301	Data not Lognormal at 5% Significance Level	0.30
Sud for North at 0 % digital and Ever	***************************************	Data not Logiornia at 0 % olymnoa 100 Loren	
Assuming Normal Distribution	Ennena-tynini yawati	Assuming Lognormal Distribution	##************************************
95% Student's-t UCL	0.0094		0.016
95% UCLs (Adjusted for Skewness)	1	95% Chebyshev (MVUE) UCL	0.012
95% Adjusted-CLT UCL	0.0101	97.5% Chebyshev (MVUE) UCL	0.01
95% Modified-t UCL	0.0096	99% Chebyshev (MVUE) UCL	0.02
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.452	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	0.0125		
nu star	17.18		manner behander die
Approximate Chi Square Value (.05)	8.804	Nonparametric Statistics	The provide the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the contr
Adjusted Level of Significance	0.0369	95% CLT UCL	0.00
Adjusted Chi Square Value	8.282	95% Jackknife UCL	0.00
		95% Standard Bootstrap UCL	0.00
Anderson-Darling Test Statistic	3.232	95% Bootstrap-t UCL	0.01
Anderson-Darling 5% Critical Value	0.804	95% Hall's Bootstrap UCL	0.00
Kolmogorov-Smirnov Test Statistic	0.355	95% Percentile Bootstrap UCL	0.00
Kolmogorov-Smirnov 5% Critical Value	0.21	95% BCA Bootstrap UCL	0.01
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.01
		97.5% Chebyshev(Mean, Sd) UCL	0.019
Assuming Gamma Distribution	·	99% Chebyshev(Mean, Sd) UCL	0.02
95% Approximate Gamma UCL	0.0111		ł

95% Adjusted Gamma UCL	0.0118		
I and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second			
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.027
Recommended UC	L exceeds the	e maximum observation	
sult or 1/2 DL (dibenz(a,h)anthracene)			
	Made opposite to the advised of the defendance is a set to construct the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set		
Number of Valid Samples	General Stat	Number of Unique Samples	26
Number of Valid Samples	30	Number of Ornque Samples	20
Raw Statistics		Log-transformed Statistics	
Minimum	0.0034	Minimum of Log Data	-5.674
Maximum	0.404	Maximum of Log Data	-0.906
Mean	0.0384	Mean of log Data	-4.616
Median	0.0054	SD of log Data	1.39
SD	0.0833		***************************************
Coefficient of Variation	2.166		
Skewness	3.088		
Re	elevant UCL S	Statistics	
Normal Distribution Test		Lognormal Distribution Test	ranning rapa wheel en erlev H
Shapiro Wilk Test Statistic	0.49	Shapiro Wilk Test Statistic	0.64
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.93
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
			COMMENTAL COMPANIES PORTO TO SELECT
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0619	95% H-UCL	0.05
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.05
95% Adjusted-CLT UCL	0.0689	97.5% Chebyshev (MVUE) UCL	0.07
95% Modified-t UCL	0.0631	99% Chebyshev (MVUE) UCL	0.09
Commo Distribution Tool		Data Distribution	and an employable desired to be a second of the
Gamma Distribution Test  k star (bias corrected)	0.451	Data Distribution  Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.451	Data do not follow a Discernable Distribution (0.00)	
nu star	32.49		
Approximate Chi Square Value (.05)	20.46	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.06
Adjusted Chi Square Value	20.02	95% Jackknife UCL	0.06
rajacea em equare vario	20.02	95% Standard Bootstrap UCL	0.06
Anderson-Darling Test Statistic	7.096	95% Bootstrap-t UCL	0.08
Anderson-Darling 5% Critical Value	0.819	95% Hall's Bootstrap UCL	0.07
Kolmogorov-Smirnov Test Statistic	0.456	95% Percentile Bootstrap UCL	0.06
Kolmogorov-Smirnov 5% Critical Value	0.156	95% BCA Bootstrap UCL	0.07
Data not Gamma Distributed at 5% Significance Levi	i	95% Chebyshev(Mean, Sd) UCL	0.09
		97.5% Chebyshev(Mean, Sd) UCL	0.12
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.17
95% Approximate Gamma UCL	0.0611		
95% Adjusted Gamma UCL	0.0624		**************************************
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.17

ılt or 1/2 DL (dibenzofuran)	lakka kari ka ita rasi wali a sa kasi kata a ita a a sa	<b>************</b>	
	General S	tatistics	numer of the same
Number of Valid Samples	36	Number of Unique Samples	27
Raw Statistics	No. 4 may 10050076 17500 300 1700 300 1707 177 177 177 177 177 177 177 177	Log-transformed Statistics	
Minimum	0.0030	Minimum of Log Data	-5.799
Maximum	0.0862	Maximum of Log Data	-2.451
Mean	0.0099	Mean of log Data	-4.945
Median	0.0075	SD of log Data	0.66
SD	0.0145		**************************************
Coefficient of Variation	1.457		
Skewness	4.686		
R	televant UCL	_ Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.375	Shapiro Wilk Test Statistic	0.73
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.93
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.014	95% H-UCL	0.01
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.01
95% Adjusted-CLT UCL	0.0159	97.5% Chebyshev (MVUE) UCL	0.01
95% Modified-t UCL	0.0143	99% Chebyshev (MVUE) UCL	0.01
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.523	Data do not follow a Discernable Distribution (0.05	)
Theta Star	0.0065		
nu star	109.7		<b></b>
Approximate Chi Square Value (.05)	86.51	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.01
Adjusted Chi Square Value	85.57	95% Jackknife UCL	0.0
		95% Standard Bootstrap UCL	0.0
Anderson-Darling Test Statistic	5.17	95% Bootstrap-t UCL	0.03
Anderson-Darling 5% Critical Value	0.764	95% Hall's Bootstrap UCL	0.03
Kolmogorov-Smirnov Test Statistic	0.389	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.149	95% BCA Bootstrap UCL	0.0
Data not Gamma Distributed at 5% Significance Lev	⁄el	95% Chebyshev(Mean, Sd) UCL	0.02
		97.5% Chebyshev(Mean, Sd) UCL	0.02
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.03
95% Approximate Gamma UCL	0.0126		
95% Adjusted Gamma UCL	0.0128		annick make dakteriowe
Potential UCL to Use	***************************************	Use 95% Chebyshev (Mean, Sd) UCL	0.02
lt or 1/2 DL (diethyl phthalate)			
	General St	tatistics	***************************************
Number of Valid Samples	36	Number of Unique Samples	29

	- 100		ger of the
Raw Statistics		Log-transformed Statistics	
Minimum	0.0037	Minimum of Log Data	-5.578
Maximum	0.0498	Maximum of Log Data	-3
Mean	0.0097	Mean of log Data	-4.752
Median	0.0092	SD of log Data	0.448
SD	0.0072		
Coefficient of Variation	0.743		ent and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state
Skewness	5.035		
	Relevant UC	L Statistics	nanno paratra (seconda para
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.413	Shapiro Wilk Test Statistic	0.712
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.935
Data not Normal at 5% Significance Level	0.000	Data not Lognormal at 5% Significance Level	~
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0118	95% H-UCL	0.011
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0127
95% Adjusted-CLT UCL	0.0128	97.5% Chebyshev (MVUE) UCL	0.014
95% Modified-t UCL	0.012	99% Chebyshev (MVUE) UCL	0.0168
Gamma Distribution Test		Data Distribution	may array, may array a
k star (bias corrected)	3.92	Data do not follow a Discernable Distribution (0.05	)
Theta Star	0.0024		fu(,nu)) ()+ mg-n+ma
nu star	282.3		
Approximate Chi Square Value (.05)	244.3	Nonparametric Statistics	v.+.+
Adjusted Level of Significance	0.0428	95% CLT UCL	0.0117
Adjusted Chi Square Value	242.7	95% Jackknife UCL	0.0118
		95% Standard Bootstrap UCL	0.0117
Anderson-Darling Test Statistic	4.813	95% Bootstrap-t UCL	0.0146
Anderson-Darling 5% Critical Value	0.752	95% Hail's Bootstrap UCL	0.0208
Kolmogorov-Smirnov Test Statistic	0.332	95% Percentile Bootstrap UCL	0.012
Kolmogorov-Smirnov 5% Critical Value	0.147	95% BCA Bootstrap UCL	0.0135
Data not Gamma Distributed at 5% Significance Le	1	95% Chebyshev(Mean, Sd) UCL	0.015
		97.5% Chebyshev(Mean, Sd) UCL	0.0173
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0218
95% Approximate Gamma UCL	0.0113	3370 Oliobyshev(Modif, 94) CCL	0.02 I
95% Adjusted Gamma UCL	0.0113		er-residents to 1984 ( leaves while the
Potential UCL to Use		Use 95% Student's-t UCL	0.0118
		or 95% Modified-t UCL	0.012
esult or 1/2 DL (di-n-butyl phthalate)			**************************************
	Industrial and Applications		
Number of Volid Correla	General S	Statistics  Number of Unique Samples	31
Number of Valid Samples	36	Number of Unique Samples	JI
Raw Statistics	-	Log-transformed Statistics	
Minimum	0.0039	Minimum of Log Data	-5.525
Maximum	0.0835	Maximum of Log Data	-2.483

			#
Mean	0.0155	Mean of log Data	-4.358
Median	0.0154	SD of log Data	0.624
SD	0.0128		
Coefficient of Variation	0.822		•
Skewness	4.448		
	Relevant UCI	L Statistics	for an index first rate Million in Index 2 and ray for a ve
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.486	Shapiro Wilk Test Statistic	0.744
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.935
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0191	95% H-UCL	0.019
95% UCLs (Adjusted for Skewness)	<u> </u>	95% Chebyshev (MVUE) UCL	0.023
95% Adjusted-CLT UCL	0.0207	97.5% Chebyshev (MVUE) UCL	0.026
95% Modified-t UCL	0.0194	99% Chebyshev (MVUE) UCL	0.032
Gamma Distribution Test		Data Diskilludian	
	0.504	Data Distribution	
k star (bias corrected) Theta Star	2.534 0.0061	Data do not follow a Discernable Distribution (0.05	) 
	182.4		
nu star Approximate Chi Square Value (.05)	152.2	Nonparametria Statistica	annatic for parts and a state of the parts of the
Adjusted Level of Significance	0.0428	Nonparametric Statistics  95% CLT UCL	0.019
Adjusted Level of Significance  Adjusted Chi Square Value	150.9	95% CL1 OCL	0.019
Adjusted Citi Squate Value	130.9	95% Standard Bootstrap UCL	0.018
Anderson-Darling Test Statistic	4.3	95% Solatidate Bootstrap CCL	0.012
Anderson-Darling 19st Statistic	0.755	95% Bootstrap UCL	0.022
Kolmogorov-Smirnov Test Statistic	0.755	95% Percentile Bootstrap UCL	0.030
Kolmogorov-Smirnov 7% Critical Value	0.308	95% BCA Bootstrap UCL	0.01
Data not Gamma Distributed at 5% Significance Le	l	95% Chebyshev(Mean, Sd) UCL	0.02
Data not Gamma Distributed at 5% Significance Le	vei	97.5% Chebyshev(Mean, Sd) UCL	0.028
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.026
95% Approximate Gamma UCL	0.0186	33 % Chebyshev(Weah, 3d) OCL	0.030
95% Adjusted Gamma UCL	0.0188		m.mengamangaranihan.a
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.024
esult or 1/2 DL (di-n-octyl phthalate)	d to the end from the district community to the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of		ete-committees respectively to
Ni	General S		20
Number of Valid Samples	36	Number of Unique Samples	30
Raw Statistics		Log-transformed Statistics	
Minimum	0.0041	Minimum of Log Data	-5.48
Maximum	0.123	Maximum of Log Data	-2.096
Mean	0.0115	Mean of log Data	-4.921
Median	0.0047	SD of log Data	0.76
SD	0.0205		
Coefficient of Variation	1.774		
		***************************************	

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	Relevant UCL S		
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.376	Shapiro Wilk Test Statistic	0.70
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.93
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	and smarpholic melblesh
Assuming Normal Distribution		Assuming Lognormal Distribution	***************************************
95% Student's-t UCL	0.0173	95% H-UCL	0.01
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.01
95% Adjusted-CLT UCL	0.0202	97.5% Chebyshev (MVUE) UCL	0.01
95% Modified-t UCL	0.0178	99% Chebyshev (MVUE) UCL	0.02
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1,146	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.0101	Data do not follow a Discernable Distribution (0.00)	
nu star	82.54		
Approximate Chi Square Value (.05)	62.6	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.0
Adjusted Chi Square Value	61.81	95% Jackknife UCL	0.0
		95% Standard Bootstrap UCL	0.0
Anderson-Darling Test Statistic	5.068	95% Bootstrap-t UCL	0.0
Anderson-Darling 5% Critical Value	0.772	95% Hall's Bootstrap UCL	0.0
Kolmogorov-Smirnov Test Statistic	0.33	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.15	95% BCA Bootstrap UCL	0.0
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.0
		97.5% Chebyshev(Mean, Sd) UCL	0.0
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0
95% Approximate Gamma UCL	0.0152		
95% Adjusted Gamma UCL	0.0154		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.0
			Habi-pitti b "1144 1144
ult or 1/2 DL (ethylbenzene)			
	General Stat	istics	
Number of Valid Samples	19	Number of Unique Samples	19
Raw Statistics		Log-transformed Statistics	
	8.7000E-5	Minimum of Log Data	-9.35
Maximum	0.0050	Maximum of Log Data	-5.29
Mean	0.0016	Mean of log Data	-7.57
	1.1400E-4	SD of log Data	1.7
SD	0.0019		
Coefficient of Variation	1.168		
Skewness	0.735		mmusette Hilde
mureone americansupparturations supplied a policies of the Albertan supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied t	Relevant UCL S		
Normal Distribution Test	0.750	Lognormal Distribution Test	0.7
Shapiro Wilk Test Statistic	0.759	Shapiro Wilk Test Statistic	U. /

0.901

Shapiro Wilk Critical Value

0.901

Shapiro Wilk Critical Value

Dete est No			
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0024	95% H-UCL	0.012
95% UCLs (Adjusted for Skewness)	0.002	95% Chebyshev (MVUE) UCL	0.006
95% Adjusted-CLT UCL	0.0024	97.5% Chebyshev (MVUE) UCL	0.008
95% Modified-t UCL	0.0024	99% Chebyshev (MVUE) UCL	0.008
95% Moullied-t OCL	0.0024	99% Chebystlev (MVOE) OCC	0.012
Gamma Distribution Test		Data Distribution	aghrupan ku unu aksadu eks Baku
k star (bias corrected)	0.484	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.0034		
nu star	18.4		
Approximate Chi Square Value (.05)	9.677	Nonparametric Statistics	and an analysis of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of
Adjusted Level of Significance	0.0369	95% CLT UCL	0.002
Adjusted Chi Square Value	9.127	95% Jackknife UCL	0.002
		95% Standard Bootstrap UCL	0.002
Anderson-Darling Test Statistic	2.006	95% Bootstrap-t UCL	0.002
Anderson-Darling 5% Critical Value	0.8	95% Hall's Bootstrap UCL	0.002
Kolmogorov-Smirnov Test Statistic	0.336	95% Percentile Bootstrap UCL	0.002
Kolmogorov-Smirnov 5% Critical Value	0.209	95% BCA Bootstrap UCL	0.002
Data not Gamma Distributed at 5% Significance Lev		95% Chebyshev(Mean, Sd) UCL	0.002
Data not Gamina Distributed at 5% Significance Lev	/ei		0.003
		97.5% Chebyshev(Mean, Sd) UCL	
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.006
95% Approximate Gamma UCL	0.0031		
95% Adjusted Gamma UCL	0.0033		
Potential UCL to Use Recommended UC	CL exceeds	Use 99% Chebyshev (Mean, Sd) UCL the maximum observation	0.006
esult or 1/2 DL (fluoranthene)			
esult or 1/2 DL (fluoranthene)	General S	tatistics	
esult or 1/2 DL (fluoranthene)  Number of Valid Samples	General S	tatistics  Number of Unique Samples	26
Number of Valid Samples		Number of Unique Samples	26
Number of Valid Samples Raw Statistics	36	Number of Unique Samples  Log-transformed Statistics	
Number of Valid Samples  Raw Statistics  Minimum	0.0033	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	-5.69
Number of Valid Samples  Raw Statistics  Minimum  Maximum	0.0033 2.19	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-5.69 0.784
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	0.0033 2.19 0.146	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.69 0.784 -4.243
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	0.0033 2.19 0.146 0.0063	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-5.69 0.78 ² -4.243
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	0.0033 2.19 0.146 0.0063 0.469	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.69 0.78 ² -4.243
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	0.0033 2.19 0.146 0.0063 0.469 3.217	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.69 0.78 ² -4.243
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	0.0033 2.19 0.146 0.0063 0.469	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.69 0.784
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness	0.0033 2.19 0.146 0.0063 0.469 3.217	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-5.69 0.78 ² -4.243
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0033 2.19 0.146 0.0063 0.469 3.217 3.949	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	-5.69 0.78 ² -4.243 1.75 ²
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness	0.0033 2.19 0.146 0.0063 0.469 3.217 3.949	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-5.69 0.78 ⁴ -4.243 1.75 ²
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness  R  Normal Distribution Test	0.0033 2.19 0.146 0.0063 0.469 3.217 3.949	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	-5.69 0.784 -4.243 1.752
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic	0.0033 2.19 0.146 0.0063 0.469 3.217 3.949 elevant UCI	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-5.69 0.784 -4.243
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness  R  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.0033 2.19 0.146 0.0063 0.469 3.217 3.949 elevant UCI	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	-5.69 0.784 -4.243 1.752

The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon		the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competence of the competen	
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.164
95% Adjusted-CLT UCL	0.329	97.5% Chebyshev (MVUE) UCL	0.209
95% Modified-t UCL	0.286	99% Chebyshev (MVUE) UCL	0.296
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.292	Data do not follow a Discernable Distribution (0.05)	)
Theta Star	0.499		STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET,
nu star	21		
Approximate Chi Square Value (.05)	11.59	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.274
Adjusted Chi Square Value	11.27	95% Jackknife UCL	0.27
		95% Standard Bootstrap UCL	0.27
Anderson-Darling Test Statistic	6.927	95% Bootstrap-t UCL	0.91
Anderson-Darling 5% Critical Value	0.858	95% Hall's Bootstrap UCL	0.85
Kolmogorov-Smirnov Test Statistic	0.416	95% Percentile Bootstrap UCL	0.28
Kolmogorov-Smirnov 5% Critical Value	0.159	95% BCA Bootstrap UCL	0.35
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.48
	4*************************************	97.5% Chebyshev(Mean, Sd) UCL	0.63
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.92
95% Approximate Gamma UCL	0.264		, 1 . ,
95% Adjusted Gamma UCL	0.271		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.92
It or 1/2 DL (fluorene)			
	General Sta		25
It or 1/2 DL (fluorene)  Number of Valid Samples	General Sta	atistics  Number of Unique Samples	25
			25
Number of Valid Samples		Number of Unique Samples	
Number of Valid Samples Raw Statistics	36	Number of Unique Samples  Log-transformed Statistics	-5.674
Number of Valid Samples  Raw Statistics  Minimum	0.0034	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	-5.674 -1.959
Number of Valid Samples  Raw Statistics  Minimum  Maximum	0.0034 0.141	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-5.674 -1.959 -5.042
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	0.0034 0.141 0.0112	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.674 -1.959 -5.042
Raw Statistics  Minimum  Maximum  Mean  Median	0.0034 0.141 0.0112 0.0053	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.674 -1.959 -5.042
Raw Statistics  Minimum  Maximum  Mean  Median  SD	0.0034 0.141 0.0112 0.0053 0.0235	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	25 -5.674 -1.959 -5.042 0.774
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0034 0.141 0.0112 0.0053 0.0235 2.098	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-5.674 -1.959 -5.042
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0034 0.141 0.0112 0.0053 0.0235 2.098 5.169	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-5.674 -1.959 -5.042
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0034 0.141 0.0112 0.0053 0.0235 2.098 5.169	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  Statistics	-5.674 -1.959 -5.042 0.774
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0034 0.141 0.0112 0.0053 0.0235 2.098 5.169	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test	-5.674 -1.959 -5.042 0.77
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic	0.0034 0.141 0.0112 0.0053 0.0235 2.098 5.169	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-5.674 -1.959 -5.042 0.77
Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level	0.0034 0.141 0.0112 0.0053 0.0235 2.098 5.169	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level	-5.674 -1.959 -5.042 0.77
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	0.0034 0.141 0.0112 0.0053 0.0235 2.098 5.169 Relevant UCL 0.329 0.935	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	-5.674 -1.959 -5.042 0.77- 0.62- 0.93
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	0.0034 0.141 0.0112 0.0053 0.0235 2.098 5.169	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	-5.674 -1.959 -5.042 0.77 0.62 0.93
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	0.0034 0.141 0.0112 0.0053 0.0235 2.098 5.169 Relevant UCL 0.329 0.935	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-5.674 -1.959 -5.042 0.774 0.623 0.933
Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL	0.0034 0.141 0.0112 0.0053 0.0235 2.098 5.169 Relevant UCL 0.329 0.935 0.0178	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL  97.5% Chebyshev (MVUE) UCL	-5.674 -1.959 -5.042 0.77- 0.62: 0.93: 0.01- 0.01-
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	0.0034 0.141 0.0112 0.0053 0.0235 2.098 5.169 Relevant UCL 0.329 0.935	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-5.674 -1.959 -5.042 0.774 

k star (bias corrected)	0.978	Data do not follow a Discernable Distribution (0.05	)
Theta Star	0.0114		personal controlling Controlling (Particles of Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Controlling Control
nu star	70.43		engargangang yaligi ayankana kanabababa
Approximate Chi Square Value (.05)	52.11	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.0176
Adjusted Chi Square Value	51.39	95% Jackknife UCL	0.0178
		95% Standard Bootstrap UCL	0.0176
Anderson-Darling Test Statistic	7.344	95% Bootstrap-t UCL	0.035
Anderson-Darling 5% Critical Value	0.775	95% Hall's Bootstrap UCL	0.0372
Kolmogorov-Smirnov Test Statistic	0.454	95% Percentile Bootstrap UCL	0.0181
Kolmogorov-Smirnov 5% Critical Value	0.151	95% BCA Bootstrap UCL	0.0227
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.0282
		97.5% Chebyshev(Mean, Sd) UCL	0.0356
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.050
95% Approximate Gamma UCL	0.0151		
95% Adjusted Gamma UCL	0.0153		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.0282
Result or 1/2 DL (indeno(1,2,3-cd)pyrene)			
	General S	Statistics	
Number of Valid Samples	36	Number of Unique Samples	28
Raw Statistics		Log-transformed Statistics	
Minimum	0.007	Minimum of Log Data	-4.962
Maximum	1.51	Maximum of Log Data	0.412
Mean	0.113	Mean of log Data	-3.647
Median	0.0092	SD of log Data	1.563
SD	0.279		
Coefficient of Variation	2.469		
Skewness	4.199		
F	Relevant UC	CL Statistics	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.427	Shapiro Wilk Test Statistic	0.762
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.935
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.192	95% H-UCL	0.201
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.204
95% Adjusted-CLT UCL	0.225	97.5% Chebyshev (MVUE) UCL	0.257
95% Modified-t UCL	0.197	99% Chebyshev (MVUE) UCL	0.361
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.423	Data do not follow a Discernable Distribution (0.05	)
Theta Star	0.268		
nu star	30.45		
Approximate Chi Square Value (.05)	18.84	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.19

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Adjusted Chi Square Value	18.43	95% Jackknife UCL	0.192
		95% Standard Bootstrap UCL	0.19
Anderson-Darling Test Statistic	4.43	95% Bootstrap-t UCL	0.396
Anderson-Darling 5% Critical Value	0.825	95% Hall's Bootstrap UCL	0.517
Kolmogorov-Smirnov Test Statistic	0.35	95% Percentile Bootstrap UCL	0.198
Kolmogorov-Smirnov 5% Critical Value	0.156	95% BCA Bootstrap UCL	0.243
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.316
		97.5% Chebyshev(Mean, Sd) UCL	0.404
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.577
95% Approximate Gamma UCL	0.183		an germaniye, makaralanda arawa mene
95% Adjusted Gamma UCL	0.187		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.577
Result or 1/2 DL (iron)	-thath		
	General S	Statistics	······································
Number of Valid Samples	36	Number of Unique Samples	32
Raw Statistics		Log-transformed Statistics	
Minimum	7120	Minimum of Log Data	8.871
Maximum	102000	Maximum of Log Data	11.53
Mean	17531	Mean of log Data	9.638
Median	15350	SD of log Data	0.436
SD	15039		
Coefficient of Variation	0.858		***************************************
Skewness	5.318		
THE RESIDENCE OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY			and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s
	Relevant UC	, «Поличнику гер, «пруст, », «поточников приня» поличного съточников поличностью в дестава дестава поличностью	
Normal Distribution Test	\$	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.41	Shapiro Wilk Test Statistic	0.824
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.935
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	The same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the sa
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	21765	95% H-UCL	19358
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	22337
95% Adjusted-CLT UCL	24027	97.5% Chebyshev (MVUE) UCL	24726
95% Modified-t UCL	22136	99% Chebyshev (MVUE) UCL	29419
	<u></u>		
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	3.588	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	4885		han and an area of the second to the second to the second
nu star	258.4		
Approximate Chi Square Value (.05)	222.1	Nonparametric Statistics	Ç-1,1-1,1-1,1-1,1-1,1-1,1-1,1-1,1-1,1-1,
Adjusted Level of Significance	0.0428		21653
Adjusted Chi Square Value	220.6	95% Jackknife UCL	21765
		95% Standard Bootstrap UCL	21576
Anderson-Darling Test Statistic	2.629	95% Bootstrap-t UCL	29376
Anderson-Darling 5% Critical Value	0.753	95% Hall's Bootstrap UCL	38680
Kolmogorov-Smirnov Test Statistic	0.213	95% Percentile Bootstrap UCL	22237

	2		<u> 20</u> - 10
Kolmogorov-Smirnov 5% Critical Value	0.148	95% BCA Bootstrap UCL	24682
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	28456
		97.5% Chebyshev(Mean, Sd) UCL	33183
Assuming Gamma Distribution	I	99% Chebyshev(Mean, Sd) UCL	42470
95% Approximate Gamma UCL	20389		
95% Adjusted Gamma UCL	20529		
			***************************************
Potential UCL to Use	S	Use 95% Student's-t UCL	21765
		or 95% Modified-t UCL	22136
opult or 1/2 DL (load)			
esult or 1/2 DL (lead)			
Number of Valid Samples	General 3	Statistics  Number of Unique Samples	31
Trainier of Valid Camples	<b></b>	Namber of oringes campies	
Raw Statistics		Log-transformed Statistics	
Minimum	5.88	Minimum of Log Data	1.7
Maximum	471	Maximum of Log Data	6.1
Mean	37.8	Mean of log Data	2.9
Median	15.2	SD of log Data	0.9
SD	80.99		
Coefficient of Variation	2.143		
Skewness	4.731		
F	Relevant UC	CL Statistics	
Normal Distribution Test	MARKE IN CASE OF SPECIAL PROPERTY OF SECURITY OF SECUR	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.388	Shapiro Wilk Test Statistic	0.7
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.9
Data not Normal at 5% Significance Level	**************************************	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	······································	Assuming Lognormal Distribution	Assesses 10 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -
95% Student's-t UCL	60.6	95% H-UCL	41.6
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	50.4
95% Adjusted-CLT UCL	71.37	97.5% Chebyshev (MVUE) UCL	59.9
95% Modified-t UCL	62.38	99% Chebyshev (MVUE) UCL	78.5
Gamma Distribution Test	affard afracerosaltshroopbade a	Data Distribution	
k star (bias corrected)	0.79	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	47.83		
nu star	56.89		pr\$
Approximate Chi Square Value (.05)	40.55	Nonparametric Statistics	
Adjusted Level of Significance	0.0428		60
Adjusted Chi Square Value	39.93	95% Jackknife UCL	60.6
		95% Standard Bootstrap UCL	60.0
Anderson-Darling Test Statistic	5.207	95% Bootstrap-t UCL	105.3
Anderson-Darling 5% Critical Value	0.784	95% Hall's Bootstrap UCL	130.3
Kolmogorov-Smirnov Test Statistic	0.389	95% Percentile Bootstrap UCL	61.6
Kolmogorov-Smirnov 5% Critical Value	0.152	95% BCA Bootstrap UCL	78.4
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	96.6
		97.5% Chebyshev(Mean, Sd) UCL	122.1
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	172.1

050/ A	F0.00		+
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	53.02 53.86		
95% Aujusted Gamma OCL	33.60		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	96.63
lesult or 1/2 DL (lithium)			
Number of Valid Samples	General Sta	Number of Unique Samples	33
	1		
Raw Statistics	***************************************	Log-transformed Statistics	***************************************
Minimum	2.59	Minimum of Log Data	0.952
Maximum	32.2	Maximum of Log Data	3.472
Mean	18.84	Mean of log Data	2.869
Median	18.55	SD of log Data	0.424
SD	5.952		
Coefficient of Variation	0.316		
Skewness	0.0191		
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Relevant UCL		
Normal Distribution Test		Lognormal Distribution Test	0.70
Shapiro Wilk Test Statistic	0.97	Shapiro Wilk Test Statistic	0.78
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.93
Data appear Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	20.51	95% H-UCL	22.03
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	25.35
95% Adjusted-CLT UCL	20.47	97.5% Chebyshev (MVUE) UCL	27.99
95% Modified-t UCL	20.51	99% Chebyshev (MVUE) UCL	33.19
			ga
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	7.068	Data appear Normal at 5% Significance Level	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Theta Star	2.665		
nu star	508.9		Mariento de 2011 11 11 11 11 11 11 11 11 11 11 11 11
Approximate Chi Square Value (.05)	457.6	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	20.47
Adjusted Chi Square Value	455.4	95% Jackknife UCL	20.51
Audien De West Total Out total	0.700	95% Standard Bootstrap UCL	20.44
Anderson-Darling Test Statistic	0.738	95% Bootstrap-t UCL	20.48
Anderson-Darling 5% Critical Value	0.749	95% Hall's Bootstrap UCL	20.47
Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value	0.121	95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL	20.44
Data appear Gamma Distributed at 5% Significance L		95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL	23.16
Daw appear Gamma Distributed at 3% Significance L	evei (97.5% Chebyshev(Mean, Sd) UCL	25.03
		99% Chebyshev(Mean, Sd) UCL	28.71
Assuming Gamma Dietribution	<u> </u>		20.71
Assuming Gamma Distribution	20.95		
95% Approximate Gamma UCL	20.95		**************************************
_	20.95		

	General St	atistics	. sales framarico y creato de
Number of Valid Samples	19	Number of Unique Samples	19
Raw Statistics		Log-transformed Statistics	
Minimum	1.6050E-4	Minimum of Log Data	-8.73
Maximum	0.0091	Maximum of Log Data	-4.69
Mean	0.0020	Mean of log Data	-7.55
Median	2.0500E-4	SD of log Data	1.6
SD	0.0034		UHIN - (MI-101M-10)
Coefficient of Variation	1.668		
Skewness	1.515		
	Relevant UCL	Statistics	
Normal Distribution Test		Lognormal Distribution Test	(marayamana mara
Shapiro Wilk Test Statistic	0.573	Shapiro Wilk Test Statistic	0.6
Shapiro Wilk Critical Value	0.901	Shapiro Wilk Critical Value	0.9
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	4-1-1-21-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0034	95% H-UCL	0.0
95% UCLs (Adjusted for Skewness)	0.0034	95% Chebyshev (MVUE) UCL	0.0
95% Adjusted-CLT UCL	0.0036	97.5% Chebyshev (MVUE) UCL	0.0
95% Modified-t UCL	0.0035	99% Chebyshev (MVUE) UCL	0.0
Gamma Distribution Test		Data Distribution	***************************************
Minute vision in the commendation of the comment of	0.428	Data do not follow a Discernable Distribution (0.05)	
k star (bias corrected) Theta Star	0.428	Data do not follow a Discernable Distribution (0.00)	<i>,,,,,,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
nu star	16.25		
Approximate Chi Square Value (.05)	8.141	Nonparametric Statistics	
Adjusted Level of Significance	0.0369	95% CLT UCL	0.0
Adjusted Chi Square Value	7.642	95% Jackknife UCL	0.0
Adjusted Offi Oquare value	7.042	95% Standard Bootstrap UCL	0.0
Anderson-Darling Test Statistic	3.262	95% Bootstrap-t UCL	0.0
Anderson-Darling 5% Critical Value	0.81	. 95% Hall's Bootstrap UCL	0.0
Kolmogorov-Smirnov Test Statistic	0.411	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.211	95% BCA Bootstrap UCL	0.0
Data not Gamma Distributed at 5% Significance Le	<u>.</u>	95% Chebyshev(Mean, Sd) UCL	0.0
		97.5% Chebyshev(Mean, Sd) UCL	0.0
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0
95% Approximate Gamma UCL	0.0041	,, . , ,	
95% Adjusted Gamma UCL	0.0044		
		Use 99% Chebyshev (Mean, Sd) UCL	0.0
Potential UCL to Use			J.0

General Statistics

	00		200
Number of Valid Samples	36	Number of Unique Samples	36
Raw Statistics		Log-transformed Statistics	
Minimum	82.3	Minimum of Log Data	4.41
Maximum	1210	Maximum of Log Data	7.09
Mean	347	Mean of log Data	5.70
Median	289.5	SD of log Data	0.54
SD	204.1		
Coefficient of Variation	0.588		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Skewness	2.242		
	<u> </u>		***************************************
F	Relevant UC		
Normal Distribution Test		Lognormal Distribution Test	***************************************
Shapiro Wilk Test Statistic	0.816	Shapiro Wilk Test Statistic	0.96
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.93
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	404.5	95% H-UCL	417.2
95% UCLs (Adjusted for Skewness)	.01.0	95% Chebyshev (MVUE) UCL	491.6
95% Adjusted-CLT UCL	416.6	97.5% Chebyshev (MVUE) UCL	553.9
95% Modified-t UCL	406.6	99% Chebyshev (MVUE) UCL	676.4

Gamma Distribution Test		Data Distribution	
k star (bias corrected)	3.417	Data appear Gamma Distributed at 5% Significance L	.evel
Theta Star	101.6		4. M. L
nu star	246		***************************************
Approximate Chi Square Value (.05)	210.7	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	403
Adjusted Chi Square Value	209.2	95% Jackknife UCL	404.5
		95% Standard Bootstrap UCL	401.3
Anderson-Darling Test Statistic	0.549	95% Bootstrap-t UCL	424.9
Anderson-Darling 5% Critical Value	0.753	95% Hall's Bootstrap UCL	467
Kolmogorov-Smirnov Test Statistic	0.11	95% Percentile Bootstrap UCL	405.4
Kolmogorov-Smirnov 5% Critical Value	0.148	95% BCA Bootstrap UCL	417.9
Data appear Gamma Distributed at 5% Significance L	_evel	95% Chebyshev(Mean, Sd) UCL	495.3
		97.5% Chebyshev(Mean, Sd) UCL	559.4
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	685.4
95% Approximate Gamma UCL	405.2		
95% Adjusted Gamma UCL	408.1		***************************************
Potential UCL to Use		Use 95% Approximate Gamma UCL	405.2
sult or 1/2 DL (mercury)			
Saltor 112 DE (IIIGICULY)			
Number 2011	General S		00
Number of Valid Samples	36	Number of Unique Samples	23
Raw Statistics		Log-transformed Statistics	
Minimum	0.0011	Minimum of Log Data	-6.768
· · · · · · · · · · · · · · · · · · ·		Maximum of Log Data	-2.749

Mean	0.0094	Mean of log Data	-5.346
Median	0.0074	SD of log Data	1.23
SD	0.0124		
Coefficient of Variation	1.306		
Skewness	2.923		
	Relevant UCI	L Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.667	Shapiro Wilk Test Statistic	0.846
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.935
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	(/ of r ight
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.013	95% H-UCL	0.0177
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0205
95% Adjusted-CLT UCL	0.0139	97.5% Chebyshev (MVUE) UCL	0.025
95% Modified-t UCL	0.0131	99% Chebyshev (MVUE) UCL	0.0342
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.803	Data do not follow a Discernable Distribution (0.05)
Theta Star	0.0118		
nu star	57.82		
Approximate Chi Square Value (.05)	41.34	Nonparametric Statistics	***************************************
Adjusted Level of Significance	0.0428	95% CLT UCL	0.0129
Adjusted Chi Square Value	40.7	95% Jackknife UCL	0.013
		95% Standard Bootstrap UCL	0.0128
Anderson-Darling Test Statistic	1.891	95% Bootstrap-t UCL	0.0153
Anderson-Darling 5% Critical Value	0.783	95% Hall's Bootstrap UCL	0.028
Kolmogorov-Smirnov Test Statistic	0.247	95% Percentile Bootstrap UCL	0.0132
Kolmogorov-Smirnov 5% Critical Value	0.152	95% BCA Bootstrap UCL	0.014
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.018
	***************************************	97.5% Chebyshev(Mean, Sd) UCL	0.022
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.03
95% Approximate Gamma UCL	0.0133		**************************************
95% Adjusted Gamma UCL	0.0135		and the section of th
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.03
Result or 1/2 DL (methylcyclohexane)			41
	General S	tatistics	
Number of Valid Samples	19	Number of Unique Samples	19
Raw Statistics		Log-transformed Statistics	
Minimum	1.4950E-4	Minimum of Log Data	-8.808
Maximum	0.0085	Maximum of Log Data	-4.762
Mean	0.0024	Mean of log Data	-7.039
Median	0.0015	SD of log Data	1.607
SD	0.0030		recently and the second
Coefficient of Variation	1.259		
Skewness	1.227		

F	Relevant UCL S	Statistics	
Normal Distribution Test	CICVAIN OOL (Lognormal Distribution Test	\$400.00 market 410 marter
Shapiro Wilk Test Statistic	0.726	Shapiro Wilk Test Statistic	0.81
Shapiro Wilk Critical Value	0.901	Shapiro Wilk Critical Value	0.90
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0036	95% H-UCL	0.0
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0
95% Adjusted-CLT UCL	0.0038	97.5% Chebyshev (MVUE) UCL	0.0
95% Modified-t UCL	0.0037	99% Chebyshev (MVÜE) UCL	0.0
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.541	Data do not follow a Discernable Distribution (0.05)	\\
Theta Star	0.0045	Data do not follow a Discornable Distribution (6:50)	
nu star	20.57		
Approximate Chi Square Value (.05)	11.27	Nonparametric Statistics	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Adjusted Level of Significance	0.0369	95% CLT UCL	0.0
Adjusted Chi Square Value	10.67	95% Jackknife UCL	0.0
Adjactor on oquale value	10.07	95% Standard Bootstrap UCL	0.0
Anderson-Darling Test Statistic	1.396	95% Bootstrap-t UCL	0.0
Anderson-Darling 5% Critical Value	0.793	95% Hall's Bootstrap UCL	0.0
Kolmogorov-Smirnov Test Statistic	0.793	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.208	95% BCA Bootstrap UCL	0.0
Data not Gamma Distributed at 5% Significance Lev	ì	95% Chebyshev(Mean, Sd) UCL	0.0
The state of the s	- CI	97.5% Chebyshev(Mean, Sd) UCL	0.0
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0
95% Approximate Gamma UCL	0.0044	3070 Onebyshov(Incell), 647 00E	
95% Adjusted Gamma UCL	0.0047		ngetitere en en en en en en en
			Majoristan property facility
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.0
Recommended UC	CL exceeds the	e maximum observation	

uit or 1/2 DL (molybdenum)			
	General Stat	istics	
Number of Valid Samples	36	Number of Unique Samples	28
Raw Statistics		Log-transformed Statistics	
Minimum	0.037	Minimum of Log Data	-3.29
Maximum	10.7	Maximum of Log Data	2.3
Mean	0.586	Mean of log Data	-1.9
Median	0.115	SD of log Data	1.4
SD	1.788		
Coefficient of Variation	3.054		
Skewness	5.477		
	elevant UCL S		
Normal Distribution Test	0.321	Lognormal Distribution Test	

Shapiro Wilk Test Statistic

0.321

0.86

Shapiro Wilk Test Statistic

Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.935
Data not Normal at 5% Significance Level	\$ C	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Annumina Lagragued Distribution	
	4 000	Assuming Lognormal Distribution	0.051
95% Student's-t UCL	1.089	95% H-UCL	0.851
95% UCLs (Adjusted for Skewness)	4 007	95% Chebyshev (MVUE) UCL	0.917
95% Adjusted-CLT UCL 95% Modified-t UCL	1.367	97.5% Chebyshev (MVUE) UCL	1.144
95% Modified-t UCL	1.135	99% Chebyshev (MVUE) UCL	1.588
Gamma Distribution Test		Data Distribution	The the state of t
k star (bias corrected)	0.445	Data do not follow a Discernable Distribution (0.05)
Theta Star	1.316		
nu star	32.04		**************************************
Approximate Chi Square Value (.05)	20.1	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	1.076
Adjusted Chi Square Value	19.67	95% Jackknife UCL	1.089
, ajasta Oni Oquale Value	10.07	95% Standard Bootstrap UCL	1.003
Anderson-Darling Test Statistic	3.324	95% Bootstrap-t UCL	2.845
Anderson-Darling 5% Critical Value	0.82	95% Hall's Bootstrap UCL	2.784
Kolmogorov-Smirnov Test Statistic	0.82	95% Percentile Bootstrap UCL	1.164
Kolmogorov-Smirnov 7est Statistic Kolmogorov-Smirnov 5% Critical Value	0.217	95% BCA Bootstrap UCL	1.557
Data not Gamma Distributed at 5% Significance Lev		95% Chebyshev(Mean, Sd) UCL	1.885
Data not danima Distributed at 5% Significance Lev	vei		2.447
A Distribution		97.5% Chebyshev(Mean, Sd) UCL	
Assuming Gamma Distribution	0.000	99% Chebyshev(Mean, Sd) UCL	3.551
95% Approximate Gamma UCL	0.933		
95% Adjusted Gamma UCL	0.954		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	3.551
esult or 1/2 DL (naphthalene)			
esult of 172 DL (naphinalene)			
Number of Valld Courses	General St		10
Number of Valid Samples	19	Number of Unique Samples	19
Raw Statistics		Log-transformed Statistics	
Minimum	1.5800E-4	Minimum of Log Data	-8.753
Maximum	0.251	Maximum of Log Data	-1.382
Mean	0.0236	Mean of log Data	-6.08
Median	0.0018	SD of log Data	2.079
SD	0.0644		
Coefficient of Variation	2.734		
Skewness	3.147	·	
R Normal Distribution Test	elevant UCL	. Statistics Lognormal Distribution Test	The Management of the second o
Shapiro Wilk Test Statistic	0.407	Shapiro Wilk Test Statistic	0.90
Shapiro Wilk Critical Value	0.901	Shapiro Wilk Critical Value	0.90
Data not Normal at 5% Significance Level	0.301	Data appear Lognormal at 5% Significance Level	0,30
	anapa saasaa		***************************************
Assuming Normal Distribution	2	Assuming Lognormal Distribution	
95% Student's-t UCL	0.0492	95% H-UCL	0.173

	F1		
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.052
95% Adjusted-CLT UCL	0.0593	97.5% Chebyshev (MVUE) UCL	0.069
95% Modified-t UCL	0.051	99% Chebyshev (MVUE) UCL	0.10
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.285	Data appear Lognormal at 5% Significance Level	
Theta Star	0.0827		
nu star	10.82		***************************************
Approximate Chi Square Value (.05)	4.458	Nonparametric Statistics	
Adjusted Level of Significance	0.0369	95% CLT UCL	0.04
Adjusted Chi Square Value	4.107	95% Jackknife UCL	0.04
		95% Standard Bootstrap UCL	0.04
Anderson-Darling Test Statistic	2.192	95% Bootstrap-t UCL	0.50
Anderson-Darling 5% Critical Value	0.844	95% Hall's Bootstrap UCL	0.25
Kolmogorov-Smirnov Test Statistic	0.332	95% Percentile Bootstrap UCL	0.05
Kolmogorov-Smirnov 5% Critical Value	0.215	95% BCA Bootstrap UCL	0.06
Data not Gamma Distributed at 5% Significance Lev	į	95% Chebyshev(Mean, Sd) UCL	0.08
		97.5% Chebyshev(Mean, Sd) UCL	0.11
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.17
95% Approximate Gamma UCL	0.0571		•
95% Adjusted Gamma UCL	0.062		
30% Adjusted delima 000	0,002		
Potential UCL to Use		Use 99% Chebyshev (MVUE) UCL	0.10
ult or 1/2 DL (nickel)			
	General Sta		32
Number of Valid Samples	General Sta	atistics Number of Unique Samples	32
			32
Number of Valid Samples		Number of Unique Samples	
Number of Valid Samples Raw Statistics	36	Number of Unique Samples Log-transformed Statistics	2.27
Number of Valid Samples Raw Statistics Minimum	9.74	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	2.27
Number of Valid Samples Raw Statistics Minimum Maximum	9.74 51.7	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	2.27 3.94 2.79
Raw Statistics Minimum Maximum Mean	9.74 51.7 17.17	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	2.27 3.94 2.79
Raw Statistics Minimum Maximum Mean Median	9.74 51.7 17.17	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	2.27 3.94 2.79
Raw Statistics Minimum Maximum Mean Median SD	9.74 51.7 17.17 16 6.788	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	2.27 3.94 2.79
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	9.74 51.7 17.17 16 6.788 0.395 3.881	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	2.27 3.94 2.79
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	9.74 51.7 17.17 16 6.788 0.395	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Statistics	2.27 3.94 2.79
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test	9.74 51.7 17.17 16 6.788 0.395 3.881	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test	2.27 3.94 2.79 0.28
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic	9.74 51.7 17.17 16 6.788 0.395 3.881	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic	2.27 3.92 2.79 0.28
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test	9.74 51.7 17.17 16 6.788 0.395 3.881	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test	2.27 3.92 2.79 0.28
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	9.74 51.7 17.17 16 6.788 0.395 3.881	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	2.27 3.92 2.79 0.28
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	9.74 51.7 17.17 16 6.788 0.395 3.881	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	2.27 3.92 2.79 0.28
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	9.74 51.7 17.17 16 6.788 0.395 3.881	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	2.27 3.9 ² 2.79 0.28 0.88 0.93
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	9.74 51.7 17.17 16 6.788 0.395 3.881 Relevant UCL 0.637 0.935	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution	2.27 3.92 2.79 0.28 0.88 0.93
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	9.74 51.7 17.17 16 6.788 0.395 3.881 Relevant UCL 0.637 0.935	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	32 2.27 3.94 2.79 0.28 0.88 0.93
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	9.74 51.7 17.17 16 6.788 0.395 3.881 Relevant UCL 0.637 0.935	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	2.27 3.94 2.79 0.28 0.88 0.93

125		
9.72	Data Follow Appr. Gamma Distribution at 5% Significance	e Level
1.767		
699.9		manganta and a majoran had be a manage as a radii dana
639.5	Nonparametric Statistics	
0.0428	95% CLT UCL	19.03
636.9	95% Jackknife UCL	19.08
	95% Standard Bootstrap UCL	18.99
1.205	· 95% Bootstrap-t UCL	20.64
0.748	95% Hall's Bootstrap UCL	27.37
0.146	95% Percentile Bootstrap UCL	19.15
0.147	95% BCA Bootstrap UCL	19.93
e Level	95% Chebyshev(Mean, Sd) UCL	22.1
	97.5% Chebyshev(Mean, Sd) UCL	24.24
ł	99% Chebyshev(Mean, Sd) UCL	28.43
18.79		
18.87		
	Line 059/ Approximate Commo LICI	18.79
	Use 95% Approximate Gamma UCL	18.79
TO THE COMMENT OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER OW		***************************************
411-11-11-11-1-1-1-1-1-1-1-1-1-1-1-1-1-		
36	Number of Unique Samples	30
hayanayan kana	Log-transformed Statistics	
0.0036	Minimum of Log Data	-5.614
1.34	Maximum of Log Data	0.293
0.0998	Mean of log Data	-4.194
0.007	SD of log Data	1.57
0.299		
2.991		
3.832		
Relevant UC		
	Lognormal Distribution Test	
0.354	Shapiro Wilk Test Statistic	0.743
0.935	Shapiro Wilk Critical Value	0.935
PERSONAL PROPERTY AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF T	Data not Lognormal at 5% Significance Level	
arrangan quangger quan hà e na pri an me en pen quinq que q	Assuming Lognormal Distribution	
0.184	95% H-UCL	0.119
£	95% Chebyshev (MVUE) UCL	0.12
0.216	97.5% Chebyshev (MVUE) UCL	0.151
0.189	99% Chebyshev (MVUE) UCL	0.212
	Data Distribution	
0.344)
0.29		
24.76		
	Nonparametric Statistics	
[_	0.182
The state of the s	1.767 699.9 639.5 0.0428 636.9 1.205 0.748 0.146 0.147 ce Level 18.79 18.87 General \$ 36 0.0036 1.34 0.0998 0.007 0.299 2.991 3.832 Relevant UC 0.354 0.935 0.184 0.216 0.189	1.767

	14.07	95% Jackknife UCL	0.184
Adjusted Chi Square Value	14.07		
Andrew Delice Tet Out of	0.070	95% Standard Bootstrap UCL	0.182 0.515
Anderson-Darling Test Statistic	6.276	95% Bootstrap-t UCL	0.538
Anderson-Darling 5% Critical Value	0.845	95% Hall's Bootstrap UCL	0.538
Kolmogorov-Smirnov Test Statistic	0.359	95% Percentile Bootstrap UCL	0.187
Kolmogorov-Smirnov 5% Critical Value	0.158	95% BCA Bootstrap UCL	0.216
Data not Gamma Distributed at 5% Significance Le	vei	95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL	0.317
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.411
95% Approximate Gamma UCL	0.171	99 % Chebyshev (Medit, 30) OCL	0.050
95% Adjusted Gamma UCL	0.171		
95% Adjusted Gamma OCL	, 0.176		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.595
Result or 1/2 DL (pyrene)			
Number of Valid Complex	General S		28
Number of Valid Samples	36	Number of Unique Samples	20
Raw Statistics		Log-transformed Statistics	
Minimum	0.0044	Minimum of Log Data	-5.424
Maximum	1.97	Maximum of Log Data	0.678
Mean	0.143	Mean of log Data	-4.094
Median	0.0067	SD of log Data	1.701
SD	0.444		ng litrate menteksik reseat keresaan (isk
Coefficient of Variation	3.103		and the second section of the sectio
Skewness	3.879		
	Relevant UC	Statistics	
Normal Distribution Test	Tolevani oo	Lognormal Distribution Test	***************************************
Shapiro Wilk Test Statistic	0.344	Shapiro Wilk Test Statistic	0.703
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Test Statistic	0.935
Data not Normal at 5% Significance Level	0.535	Data not Lognormal at 5% Significance Level	0.300
Data not normal at 0% digitalities Level		Data for Edginimal at 370 Significance Level	e description of the second description of t
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.268	95% H-UCL	0.184
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.172
95% Adjusted-CLT UCL	0.316	97.5% Chebyshev (MVUE) UCL	0.218
95% Modified-t UCL	0.276	99% Chebyshev (MVUE) UCL	0.309
Commo Distribution Tost		Data Distribution	and an extremely described to the contract contr
Gamma Distribution Test	0.24	Data Distribution	
k star (bias corrected)	0.31	Data do not follow a Discernable Distribution (0.05	''
Theta Star	0.461		
nu star	22.31 12.57	Nannaramatria Otaliatia	.
Approximate Chi Square Value (.05)		Nonparametric Statistics	0.265
Adjusted Level of Significance	0.0428	95% CLT UCL	
Adjusted Chi Square Value	12.24	95% Jackknife UCL	0.268
		95% Standard Bootstrap UCL	0.261
Anderson-Darling Test Statistic	6.595	95% Bootstrap-t UCL	0.852
Anderson-Darling 5% Critical Value	0.853	95% Hall's Bootstrap UCL	0.824
Kolmogorov-Smirnov Test Statistic	0.37	95% Percentile Bootstrap UCL	0.268

Kolmogorov-Smirnov 5% Critical Value	0.159	95% BCA Bootstrap UCL	0.336
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.465
		97.5% Chebyshev(Mean, Sd) UCL	0.605
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.879
95% Approximate Gamma UCL	0.254		
95% Adjusted Gamma UCL	0.261		
			·/
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.879
esult or 1/2 DL (silver)			
	General S	tatistics	
Number of Valid Samples	36	Number of Unique Samples	20
Raw Statistics		Log-transformed Statistics	
Minimum	0.0135	Minimum of Log Data	-4.305
Maximum	0.41	Maximum of Log Data	-0.892
Mean	0.0473	Mean of log Data	-3.473
Median	0.0298	SD of log Data	0.718
SD	0.0773		
Coefficient of Variation	1.632		
Skewness	4.047		
	Relevant UC		
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.382	Shapiro Wilk Test Statistic	0.695
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.93
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0691	95% H-UCL	0.05
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.06
95% Adjusted-CLT UCL	0.0778	97.5% Chebyshev (MVUE) UCL	0.07
95% Modified-t UCL	0.0705	99% Chebyshev (MVUE) UCL	0.09
Gamma Distribution Test	****	Data Distribution	
k star (bias corrected)	1,233	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.0384		
nu star	88.81		
Approximate Chi Square Value (.05)	68.08	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.06
Adjusted Chi Square Value	67.26	95% Jackknife UCL	0.06
		95% Standard Bootstrap UCL	0.06
Anderson-Darling Test Statistic	6.224	95% Bootstrap-t UCL	0.15
Anderson-Darling 5% Critical Value	0.77	95% Hall's Bootstrap UCL	0.15
Kolmogorov-Smirnov Test Statistic	0.432	95% Percentile Bootstrap UCL	0.07
Kolmogorov-Smirnov 5% Critical Value	0.15	95% BCA Bootstrap UCL	0.08
Romogorov Chimnov 676 Childar Value			0.10
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.10
_	vel	95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL	0.108
_	vel		

95% Adjusted Gamma UCL	0.0625		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.103
esult or 1/2 DL (strontium)			
	General Statis	stics	
Number of Valid Samples	36	Number of Unique Samples	35
Raw Statistics		Log-transformed Statistics	***************************************
Minimum	22.1	Minimum of Log Data	3.096
Maximum	96.2	Maximum of Log Data	4.560
Mean	56.15	Mean of log Data	3.95
Median	53	SD of log Data	0.41
SD	20.95		
Coefficient of Variation	0.373		***************************************
Skewness	0.15		***************************************
			assampaqsasMIN.storetsWis
	Relevant UCL Sta		
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.954	Shapiro Wilk Test Statistic	0.93
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.93
Data appear Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	her many fragment and many
Assuming Normal Distribution	W	Assuming Lognormal Distribution	Address grade any State St. Coldina or St. c
95% Student's-t UCL	62.05	95% H-UCL	64.44
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	73.96
95% Adjusted-CLT UCL	61.98	97.5% Chebyshev (MVUE) UCL	81.51
95% Modified-t UCL	62.06	99% Chebyshev (MVUE) UCL	96.36
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	6.163	Data Distribution Data appear Normal at 5% Significance Level	***************************************
Theta Star	9.111	Data appear Normal at 0 to organization across	
nu star	443.7		
Approximate Chi Square Value (.05)	395.9	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	61.89
Adjusted Chi Square Value	393.8	95% Jackknife UCL	62.05
		95% Standard Bootstrap UCL	61.7
Anderson-Darling Test Statistic	0.492	95% Bootstrap-t UCL	62.12
Anderson-Darling 5% Critical Value	0.749	95% Hall's Bootstrap UCL	62.04
Kolmogorov-Smirnov Test Statistic	0.106	95% Percentile Bootstrap UCL	61.53
Kolmogorov-Smirnov 5% Critical Value	0.147	95% BCA Bootstrap UCL	61.5
Data appear Gamma Distributed at 5% Significance L	_evel	95% Chebyshev(Mean, Sd) UCL	71.37
		97.5% Chebyshev(Mean, Sd) UCL	77.95
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	90.89
95% Approximate Gamma UCL	62.93		
95% Adjusted Gamma UCL	63.26		
Potential LICI to Lice		Llas 05% Students t IICI	ຣາ ດເ
Potential UCL to Use		Use 95% Student's-t UCL	62.0

	General S	Statistics	
Number of Valid Samples	19	Number of Unique Samples	18
Raw Statistics	1	Log-transformed Statistics	
Minimum		Minimum of Log Data	-9.465
Maximum	0.223	Maximum of Log Data	-1.501
Mean	0.0127	Mean of log Data	-7.936 2.23
Median	1.0500E-4 0.0509	SD of log Data	2,23
Coefficient of Variation	4.004		
Skewness	4.351		
Skewiless	4.001		nocumec++++>+++++
R	elevant UC	L Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.264	Shapiro Wilk Test Statistic	0.689
Shapiro Wilk Critical Value	0.901	Shapiro Wilk Critical Value	0.90
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	**************************************
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.033	95% H-UCL	0.052
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.01
95% Adjusted-CLT UCL	0.0444	97.5% Chebyshev (MVUE) UCL	0.01
95% Modified-t UCL	0.0349	99% Chebyshev (MVUE) UCL	0.022
Gamma Distribution Test		Data Distribution	ala arda liferativo
k star (bias corrected)	0.208	Data do not follow a Discernable Distribution (0.05)	<u> </u>
Theta Star	0.0612		· · · · · · · · · · · · · · · · · · ·
nu star	7.9		***************************************
Approximate Chi Square Value (.05)	2.677	Nonparametric Statistics	***************************************
Adjusted Level of Significance	0.0369	95% CLT UCL	0.03
Adjusted Chi Square Value	2.419	95% Jackknife UCL	0.033
		95% Standard Bootstrap UCL	0.03
Anderson-Darling Test Statistic	3.918	95% Bootstrap-t UCL	0.47
Anderson-Darling 5% Critical Value	0.885	95% Hall's Bootstrap UCL	0.346
Kolmogorov-Smirnov Test Statistic	0.388	95% Percentile Bootstrap UCL	0.036
Kolmogorov-Smirnov 5% Critical Value	0.22	95% BCA Bootstrap UCL	0.048
Data not Gamma Distributed at 5% Significance Lev	rel	95% Chebyshev(Mean, Sd) UCL	0.063
		97.5% Chebyshev(Mean, Sd) UCL	0.08
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.12
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.0375 0.0416		- rindright forthe care the territory
93 % Adjusted Gamina OCL	0.0410		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.12
South on 1/2 DL (sin)			
esult or 1/2 DL (tin)	General S	Statistics	

			1
Raw Statistics		Log-transformed Statistics	4 000
Minimum	0.195	Minimum of Log Data	-1.635
Maximum	3.67	Maximum of Log Data	1.3
Mean	0.47	Mean of log Data	-1.072
Median	0.285	SD of log Data	0.642
SD	0.628		-11-18-1-18-1-18-1-18-1-18-1-18-1-18-1
Coefficient of Variation	1.334		24.000.00.000.000.000.000.000.000.000.00
Skewness	4.232		31-146/00C/1801C/FE-3801C-180C/180C
F	Relevant UC	CL Statistics	ort page committee victories the gas spin backets
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.431	Shapiro Wilk Test Statistic	0.665
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.935
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	#14 company () 100 () 100 () 100 () 100 () 100 () 100 () 100 () 100 () 100 () 100 () 100 () 100 ()	Assuming Lognormal Distribution	
95% Student's-t UCL	0.647	95% H-UCL	0.524
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.627
95% Adjusted-CLT UCL	0.721	97.5% Chebyshev (MVUE) UCL	0.718
95% Modified-t UCL	0.659	99% Chebyshev (MVUE) UCL	0.896
Gamma Distribution Test	majoran (den e rega para handeren der a era dere grade era a era era era	Data Distribution	
k star (bias corrected)	1.594	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.295		
nu star	114.8		
Approximate Chi Square Value (.05)	91.06	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.642
Adjusted Chi Square Value	90.1	95% Jackknife UCL	0.647
		95% Standard Bootstrap UCL	0.636
Anderson-Darling Test Statistic	6.272	95% Bootstrap-t UCL	0.88
Anderson-Darling 5% Critical Value	0.763	95% Hall's Bootstrap UCL	1.22
Kolmogorov-Smirnov Test Statistic	0.431	95% Percentile Bootstrap UCL	0.664
Kolmogorov-Smirnov 5% Critical Value	0.149	95% BCA Bootstrap UCL	0.747
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.926
	Not-2-10-10 wrest of 10 combines and 10	97.5% Chebyshev(Mean, Sd) UCL	1.124
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.51
95% Approximate Gamma UCL	0.593		
95% Adjusted Gamma UCL	0.599		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.926
Assuming Gamma Distribution 95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.593	97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL	1.
Sul OF 172 DE (III.A.III.II)	General S	Statistics	
Number of Valid Samples	36	Number of Unique Samples	33
Raw Statistics		Log-transformed Statistics	
Minimum	3.41	Minimum of Log Data	1.22
Maximum	57	Maximum of Log Data	4.04
Mean	20.83	Mean of log Data	2.85

A SERVICE PROPERTY OF THE PROP			
SD	12.9		
Coefficient of Variation	0.619		
Skewness	1.414		
	Relevant UCL	Statistics	
Normal Distribution Test	Televant OOL	Lognormal Distribution Test	***************************************
Shapiro Wilk Test Statistic	0.864	Shapiro Wilk Test Statistic	0.95
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.93
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	24.46	95% H-UCL	26.55
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	31.75
95% Adjusted-CLT UCL	24.9	97.5% Chebyshev (MVUE) UCL	36.33
95% Modified-t UCL	24.54	99% Chebyshev (MVUE) UCL	45.33
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	2.679	Data appear Gamma Distributed at 5% Significance Le	evel
Theta Star	7.774		
nu star	192.9		arnami etromistro-Hala
Approximate Chi Square Value (.05)	161.7	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	24.36
Adjusted Chi Square Value	160.5	95% Jackknife UCL	24.46
, rejustica cin equalic i are	100.0	95% Standard Bootstrap UCL	24.39
Anderson-Darling Test Statistic	0.489	95% Bootstrap-t UCL	25.42
Anderson-Darling 5% Critical Value	0.754	95% Hall's Bootstrap UCL	25.08
Kolmogorov-Smirnov Test Statistic	0.105	95% Percentile Bootstrap UCL	24.46
Kolmogorov-Smirnov 5% Critical Value	0.148	95% BCA Bootstrap UCL	24.77
Data appear Gamma Distributed at 5% Significance I		95% Chebyshev(Mean, Sd) UCL	30.19
		97.5% Chebyshev(Mean, Sd) UCL	34.25
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	42.21
95% Approximate Gamma UCL	24.83	oo /o Griebyshe (medii, eq.)	
95% Adjusted Gamma UCL	25.03		
Potential UCL to Use		Use 95% Approximate Gamma UCL	24.83
esult or 1/2 DL (toluene)			rager of the land
	General St		
Number of Valid Samples	19	Number of Unique Samples	19
Raw Statistics		Log-transformed Statistics	
Minimum	2.3900E-4	Minimum of Log Data	-8.339
Maximum	0.0127	Maximum of Log Data	-4.366
Mean	0.0046	Mean of log Data	-6.263
Median	0.0036	SD of log Data	1.61
SD	0.0047		
Coefficient of Variation	1.03		
Skewness	0.722	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.807	Shapiro Wilk Test Statistic	0.82
Shapiro Wilk Critical Value	0.901	Shapiro Wilk Critical Value	0.90
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	***************************************	Assuming Lognormal Distribution	
95% Student's-t UCL	0.0065	95% H-UCL	0.02
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.01
95% Adjusted-CLT UCL	0.0066	97.5% Chebyshev (MVUE) UCL	0.02
95% Modified-t UCL	0.0065	99% Chebyshev (MVUE) UCL	0.03
Gamma Distribution Test		Data Distribution	***************************************
k star (bias corrected)	0.608	Data do not follow a Discernable Distribution (0.05)	***************
Theta Star	0.0076		
nu star	23.11		***************************************
Approximate Chi Square Value (.05)	13.18	Nonparametric Statistics	
Adjusted Level of Significance	0.0369	95% CLT UCL	0.00
Adjusted Chi Square Value	12.52	95% Jackknife UCL	0.00
		95% Standard Bootstrap UCL	0.00
Anderson-Darling Test Statistic	1.109	95% Bootstrap-t UCL	0.00
Anderson-Darling 5% Critical Value	0.785	95% Hall's Bootstrap UCL	0.00
Kolmogorov-Smirnov Test Statistic	0.238	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.207	95% BCA Bootstrap UCL	0.0
Data not Gamma Distributed at 5% Significance Lev		95% Chebyshev(Mean, Sd) UCL	0.0
		97.5% Chebyshev(Mean, Sd) UCL	0.0
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0
95% Approximate Gamma UCL	0.0081	30% Shobyonov(moun, Gu) GGE	
95% Adjusted Gamma UCL	0.0085		***************************************
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.0
	CL exceeds	the maximum observation	U.U
It or 1/2 DL (vanadium)	General S	tatistics	
Number of Valid Samples	36	Number of Unique Samples	33
Raw Statistics		Log-transformed Statistics	der sakronsdag i kandig ræ
Minimum	7.85	Minimum of Log Data	2.06
Maximum	45.8	Maximum of Log Data	3.82
Mean	20.54	Mean of log Data	2.9
Mean i	19.55	SD of log Data	0.4
Median SD	8.387	1	
Median SD	8.387		***************************************
Median			
Median SD Coefficient of Variation Skewness	8.387 0.408	L Statistics	
Median SD Coefficient of Variation Skewness	8.387 0.408 0.649	L Statistics Lognormal Distribution Test	
Median SD Coefficient of Variation Skewness R Normal Distribution Test	8.387 0.408 0.649	Lognormal Distribution Test	0.96
Median SD Coefficient of Variation Skewness	8.387 0.408 0.649 elevant UCI		0.90

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	22.9	95% H-UCL	23.75
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	27.39
95% Adjusted-CLT UCL	23	97.5% Chebyshev (MVUE) UCL	30.3
95% Modified-t UCL	22.93	99% Chebyshev (MVUE) UCL	36.03
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	5.487	Data appear Normal at 5% Significance Level	J
Theta Star	3.743		
nu star	395.1		and deposits require feet at a tracks. With
Approximate Chi Square Value (.05)	350	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	22.84
Adjusted Chi Square Value	348.1	95% Jackknife UCL	22.9
		95% Standard Bootstrap UCL	22.8
Anderson-Darling Test Statistic	0.319	95% Bootstrap-t UCL	23.04
Anderson-Darling 5% Critical Value	0.75	95% Hall's Bootstrap UCL	23.09
Kolmogorov-Smirnov Test Statistic	0.0966	95% Percentile Bootstrap UCL	22.82
Kolmogorov-Smirnov 5% Critical Value	0.147	95% BCA Bootstrap UCL	23.08
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	26.63
		97.5% Chebyshev(Mean, Sd) UCL	29.27
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	34.45
95% Approximate Gamma UCL	23.19		
95% Adjusted Gamma UCL	23.31		
Potential UCL to Use		Use 95% Student's-t UCL	22.9
sult or 1/2 DL (xylene (total))	Gonoral Si	tatistics	
	General S	than a section to the contract the contract the contract to th	19
Number of Valid Samples	General Si	Number of Unique Samples	19
Number of Valid Samples Raw Statistics	19	Number of Unique Samples Log-transformed Statistics	
Number of Valid Samples Raw Statistics Minimum	2.3100E-4	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	-8.373
Raw Statistics Minimum Maximum	2.3100E-4 1.76	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-8.373 0.56
Number of Valid Samples Raw Statistics Minimum Maximum Mean	2.3100E-4 1.76 0.119	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-8.373 0.56 -5.435
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	2.3100E-4 1.76 0.119 0.0031	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-8.373 0.56 -5.435
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	2.3100E-4 1.76 0.119 0.0031 0.4	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-8.373 0.56 -5.435
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	2.3100E-4 1.76 0.119 0.0031	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-8.373 0.56 -5.435
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	2.3100E-4 1.76 0.119 0.0031 0.4 3.368	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-8.373 0.56 -5.435
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	2.3100E-4 1.76 0.119 0.0031 0.4 3.368	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-8.373 0.56 -5.435
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test	2.3100E-4 1.76 0.119 0.0031 0.4 3.368 4.273	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test	-8.373 0.56 -5.435 2.87
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic	2.3100E-4 1.76 0.119 0.0031 0.4 3.368 4.273 Relevant UCL	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic	-8.373 0.56 -5.435 2.87
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test	2.3100E-4 1.76 0.119 0.0031 0.4 3.368 4.273	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test	-8.373 0.56 -5.435 2.87
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	2.3100E-4 1.76 0.119 0.0031 0.4 3.368 4.273 Relevant UCL	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	-8.373 0.56 -5.435 2.87
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	19	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution	-8.373 0.56 -5.435 2.87 0.86 0.90
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	2.3100E-4 1.76 0.119 0.0031 0.4 3.368 4.273 Relevant UCL	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	-8.373 0.56 -5.435 2.87

			200	
95% Modified-t UCL	0,293	99% Chebyshev (MVUE) UCL	1.099	
Commo Diskillustica Tool		Data Distribution		
Gamma Distribution Test k star (bias corrected) 0.22		Data Distribution Data Follow Appr. Gamma Distribution at 5% Significance Level		
k star (bias corrected) Theta Star	0.22	Data Follow Appr. Gamma Distribution at 5% Significance	e resei	
nu star	8.358			
Approximate Chi Square Value (.05)	2.944	Nonparametric Statistics		
Adjusted Level of Significance	0.0369		0.27	
Adjusted Chi Square Value	2.67	95% Jackknife UCL	0.27	
Adjusted On Oquale Value	2.07	95% Standard Bootstrap UCL	0.26	
Anderson-Darling Test Statistic	1.648	95% Bootstrap -t UCL	1.51	
Anderson-Darling 5% Critical Value	0.879	95% Hall's Bootstrap UCL	0.90	
Kolmogorov-Smirnov Test Statistic	0.208	95% Percentile Bootstrap UCL	0.30	
Kolmogorov-Smirnov 5% Critical Value	0.219	95% BCA Bootstrap UCL	0.40	
Data follow Appr. Gamma Distribution at 5% Significance		95% Chebyshev(Mean, Sd) UCL	0.51	
	C	97.5% Chebyshev(Mean, Sd) UCL	0.69	
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.03	
95% Approximate Gamma UCL	0.337	33.73 3.133,3113 (main, 34) 30E		
95% Adjusted Gamma UCL	0.372			
	0.072			
Potential UCL to Use	***************************************	Use 95% Adjusted Gamma UCL	0.37	
esult or 1/2 DL (zinc)	General S			
esult or 1/2 DL (zinc) Number of Valid Samples	General S	Statistics Number of Unique Samples	36	
Number of Valid Samples		Number of Unique Samples	36	
Number of Valid Samples Raw Statistics	36	Number of Unique Samples Log-transformed Statistics		
Number of Valid Samples Raw Statistics Minimum	36 21.1	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	3.04	
Number of Valid Samples Raw Statistics Minimum Maximum	36 21.1 5640	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	3.04 8.63	
Number of Valid Samples Raw Statistics Minimum Maximum Mean	21.1 5640 242.5	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	3.04 8.63 4.28	
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	21.1 5640 242.5 49.05	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	3.04 8.63 4.28	
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	21.1 5640 242.5 49.05 929.4	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	3.04 8.63 4.28	
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	21.1 5640 242.5 49.05 929.4 3.833	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	3.04 8.63 4.28	
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation	21.1 5640 242.5 49.05 929.4	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	36 3.04 8.63 4.28 1.03	
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	21.1 5640 242.5 49.05 929.4 3.833 5.918	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	3.04 8.63 4.28	
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test	21.1 5640 242.5 49.05 929.4 3.833 5.918	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test	3.04 8.63 4.28 1.03	
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic	21.1 5640 242.5 49.05 929.4 3.833 5.918 Relevant UC	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic	3.04 8.63 4.28 1.03	
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	21.1 5640 242.5 49.05 929.4 3.833 5.918	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	3.04 8.63 4.28 1.03	
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic	21.1 5640 242.5 49.05 929.4 3.833 5.918 Relevant UC	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic	3.04 8.63 4.28	
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	21.1 5640 242.5 49.05 929.4 3.833 5.918 Relevant UC	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data CL Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	3.04 8.63 4.28 1.03	
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	21.1 5640 242.5 49.05 929.4 3.833 5.918 Relevant UC	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SL Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution	3.04 8.63 4.28 1.03 0.77 0.93	
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	21.1 5640 242.5 49.05 929.4 3.833 5.918 Relevant UC	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SL Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	3.04 8.63 4.28 1.03 0.77 0.93	
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	36 21.1 5640 242.5 49.05 929.4 3.833 5.918 Relevant UC 0.228 0.935	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data SL Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	3.04 8.63 4.28 1.03 0.77 0.93 191.5 229.8	
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Final Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	21.1 5640 242.5 49.05 929.4 3.833 5.918 Relevant UC 0.228 0.935	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	3.04 8.63 4.28 1.03 0.77 0.93 191.5 229.8 276.5	
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	36 21.1 5640 242.5 49.05 929.4 3.833 5.918 Relevant UC 0.228 0.935	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data SL Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	3.04 8.63 4.28 1.03 0.77 0.93 191.5 229.8	
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL	21.1 5640 242.5 49.05 929.4 3.833 5.918 Relevant UC 0.228 0.935	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	3.04 8.63 4.28 1.03 0.77 0.93 191.5 229.8 276.5	
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Final Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	21.1 5640 242.5 49.05 929.4 3.833 5.918 Relevant UC 0.228 0.935	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	3.04 8.63 4.28 1.03 0.77 0.93 191.5 229.8 276.5 368.1	

nu star	35.9		
Approximate Chi Square Value (.05)	23.19	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	497.3
Adjusted Chi Square Value	22.72	95% Jackknife UCL	504.2
		95% Standard Bootstrap UCL	499.1
. Anderson-Darling Test Statistic	6.288	95% Bootstrap-t UCL	2637
Anderson-Darling 5% Critical Value	0.81	95% Hall's Bootstrap UCL	1588
Kolmogorov-Smirnov Test Statistic	0.315	95% Percentile Bootstrap UCL	550.3
Kolmogorov-Smirnov 5% Critical Value	0.155	95% BCA Bootstrap UCL	832.6
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	917.7
		97.5% Chebyshev(Mean, Sd) UCL	1210
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1784
95% Approximate Gamma UCL	375.4		
95% Adjusted Gamma UCL	383.1		
Potential UCL to Use	· · · · · · · · · · · · · · · · · · ·	Use 99% Chebyshev (Mean, Sd) UCL	1784

APPENDIX A-5

BACKGROUND SOIL

	General UCL Statistics f	or Full Da	ata Sets	
User Selected Options				
From File Full Precision	J:\1352 - Gulfco RI\risk\	eco\Table	es for Revisited SLERA\background soll table.wst	
Confidence Coefficient	95%			
Number of Bootstrap Operations	2000			
Result or 1/2 SDL (antimony)				
General Statistics				
Number of Valid Samples		10	Number of Unique Samples	10
Raw Statistics			Log-transformed Statistics	
Minimum Maximum			Minimum of Log Data Maximum of Log Data	-2,079 0,784
Mean			Mean of log Data	-0.711
Median			SD of log Data	1.345
SD Coefficient of Variation		0.878 0.921		
Skewness		0.157		
Relevant UCL Statistics				
Normal Distribution Test Shapiro Wilk Test Statistic		N 77E	Lognormal Distribution Test Shapiro Wilk Test Statistic	0.726
Shapiro Wilk Critical Value			Shapiro Wilk Critical Value	0.726
Data not Normal at 5% Significar	ice Level	0.0 12	Data not Lognormal at 5% Significance Level	0.0.2
Assuming Normal Distribution			Assuming Lognormal Distribution	
95% Student's-t UCL 95% UCLs (Adjusted for Skewr	laga!	1.462	95% H-UCL 95% Chebyshev (MVUE) UCL	6.827 3.117
95% Adjusted-CLT UCL	1033/	1.424	97.5% Chebyshev (MVUE) UCL	4.01
95% Modified-t UCL			99% Chebyshev (MVUE) UCL	5.765
Gamma Distribution Test			Data Distribution	
k star (bias corrected)			Data do not follow a Discernable Distribution (0.05)	
Theta Star		1.39 13.71		
nu star Approximate Chi Square Value (.	05)		Nonparametric Statistics	
Adjusted Level of Significance	,	0.0267		1.41
Adjusted Chi Square Value		5,527		1.462
Anderson-Darling Test Statistic		1 346	95% Standard Bootstrap UCL 95% Bootstrap-t UCL	1,381 1,452
Anderson-Darling 5% Critical Va	ue		95% Hall's Bootstrap UCL	1.306
Kolmogorov-Smirnov Test Statist	ic	0.329	95% Percentile Bootstrap UCL	1.394
Kolmogorov-Smirnov 5% Critical		0.275	95% BCA Bootstrap UCL	1.416 2.163
Data not Gamma Distributed at 5	% Significance Level		95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL	2.163
Assuming Gamma Distribution			99% Chebyshev(Mean, Sd) UCL	3.715
95% Approximate Gamma UCL		2,05 2,364		
95% Adjusted Gamma UCL		2,304		
Potential UCL to Use Recommended UCL exceeds the	maximum observation		Use 99% Chebyshev (Mean, Sd) UCL	3.715
Result or 1/2 SDL (arsenic)				
General Statistics				
Number of Valid Samples		10	Number of Unique Samples	10
Raw Statistics			Log-transformed Statistics	
Minimum			Minimum of Log Data	-1.427 1.775
Maximum Mean			Maximum of Log Data Mean of log Data	0.985
Median			SD of log Data	0.947
SD		1.792		•
Coefficient of Variation Skewness		0.521 -0.35		
Relevant UCL Statistics				
Normal Distribution Test		^ ^ -	Lognormal Distribution Test	0.740
Shapiro Wilk Test Statistic Shapiro Wilk Critical Value			Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.749 0.842
Data appear Normal at 5% Signif	icance Level	0.042	Data not Lognormal at 5% Significance Level	0.042
Assuming Normal Distribution			Assuming Lognormal Distribution	
95% Student's-t UCL		4.477	95% H-UCL	10.79
95% UCLs (Adjusted for Skewr	ess)	4 202	95% Chebyshev (MVUE) UCL	9.349
95% Adjusted-CLT UCL 95% Modified-t UCL			97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	11.68 16.27
Gamma Distribution Test k star (bias corrected)		1.572	Data Distribution Data appear Normal at 5% Significance Level	
Theta Star		2.187		
nu star		31.44		

Approximate Chi Square Value (.05)	19.63	Nonparametric Statistics	
Adjusted Level of Significance	0.0267	95% CLT UCL	4.37
Adjusted Chi Square Value	18.03	95% Jackknife UCL	4,477
		95% Standard Bootstrap UCL	4.299
Anderson-Darling Test Statistic	0.699		4.371
Anderson-Darling 5% Critical Value	0.735		4.292
Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value	0.293 0.27	•	4.299 4.27
Data follow Appr. Gamma Distribution at 5% Signific		95% Chebyshev(Mean, Sd) UCL	5,908
Data follow Appl. Cathina Distribution at 5% dignino	ALICE LOVE	97.5% Chebyshev(Mean, Sd) UCL	6,976
· Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	9.075
95% Approximate Gamma UCL	5.507	, , , ,	
95% Adjusted Gamma UCL	5.997		
Potential UCL to Use		Use 95% Student's-t UCL	4.477
Result or 1/2 SDL (barium)			
General Statistics			
Number of Valid Samples	10	Number of Unique Samples	8
Raw Statistics		Log-transformed Statistics	
Minimum		Minimum of Log Data	5.011
Maximum		Maximum of Log Data	7.03
Mean		Mean of log Data	5.617
Median		SD of log Data	0.571
SD Coefficient of Variation	288.1		
Skewness	0.865 2.844		
Chamboo	2.044		
Relevant UCL Statistics			
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic		Shapiro Wilk Test Statistic	0.83
Shapiro Wilk Critical Value	0.842	Shapiro Wilk Critical Value	0.842
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	500.1	95% H-UCL	504
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	573.9
95% Adjusted-CLT UCL	570.5	97.5% Chebyshev (MVUE) UCL	684.7
95% Modified-t UCL	513.7	99% Chebyshev (MVUE) UCL	902.2
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	2 005	Data Follow Appr. Gamma Distribution at 5% Sign	ificance Level
Theta Star	166.1		
nu star	40.11		
Approximate Chi Square Value (.05)	26.6	Nonparametric Statistics	
Adjusted Level of Significance		95% CLT UCL	482.9
Adjusted Chi Square Value	24.7	95% Jackknife UCL	500.1
		95% Standard Bootstrap UCL	476.3
Anderson-Darling Test Statistic		95% Bootstrap-t UCL	877.8
Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic	0,733 0,268		1100 505.4
Kolmogorov-Smirnov 5% Critical Value	0.269		601.4
Data follow Appr. Gamma Distribution at 5% Signific		95% Chebyshev(Mean, Sd) UCL	730.2
Bala tollow / (PP): Gallinia Blockbation at 0 /0 Olgrinia	C 100 L0 101	97.5% Chebyshev(Mean, Sd) UCL	902
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1239
95% Approximate Gamma UCL	502.3		
95% Adjusted Gamma UCL	540.9		
Potential UCL to Use		Use 95% Approximate Gamma UCL	502,3
Result or 1/2 SDL (benzo(a)anthracene)			
General Statistics			
Number of Valid Samples	10	Number of Unique Samples	10
Raw Statistics		Log-transformed Statistics	
Minimum	0.00323	Minimum of Log Data	-5.735
Maximum		Maximum of Log Data	-2.501
Mean		Mean of log Data	-5.267
Median		SD of log Data	0,979
SD Coefficient of Verlation	0.0247		
Coefficient of Variation Skewness	2.125 3.16		
	0.10		
Relevant UCL Statistics			
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic		Shapiro Wilk Test Statistic	0.478
Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	0.842	Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	0.842
Data flot Normal at the digrillication Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.026	95% H-UCL	0.0226

95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0189
95% Adjusted-CLT UCL 95% Modified-t UCL	0.0328 0.0273	97.5% Chebyshev (MVUE) UCL	0.0236 0.033
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.583	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.02		
nu star	11.66		
Approximate Chi Square Value (.05) Adjusted Level of Significance	0.0267	Nonparametric Statistics 95% CLT UCL	0.0245
Adjusted Chi Square Value		95% Jackknife UCL	0.026
		95% Standard Bootstrap UCL	0.0238
Anderson-Darling Test Statistic		95% Bootstrap-t UCL	0.543
Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic		95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL	0.258 0.0272
Kolmogorov-Smirnov 5% Critical Value		95% BCA Bootstrap UCL	0.0351
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	0.0457
A		97.5% Chebyshev(Mean, Sd) UCL	0.0605
Assuming Gamma Distribution 95% Approximate Gamma UCL	0.0271	99% Chebyshev(Mean, Sd) UCL	0.0894
95% Adjusted Gamma UCL	0.0271		
Retardial (IC) to Hea		The OCCU Obstacles (Manage Cal LICE	0.0457
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.0457
Result or 1/2 SDL (benzo(a)pyrene)			
General Statistics			
Number of Valid Samples	10	Number of Unique Samples	7
Raw Statistics		Log-transformed Statistics	
Minimum		Minimum of Log Data	-5.44
Maximum Mean		Maximum of Log Data Mean of log Data	-2.577 -5.008
Median		SD of log Data	0.863
SD	0.0224	_	
Coefficient of Variation	1.833		
Skewness	3.157		
Relevant UCL Statistics			
Normal Distribution Test		Lognormal Distribution Test	2 125
Shapiro Wilk Test Statistic Shapiro Wilk Critical Value		Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.495 0.842
Data not Normal at 5% Significance Level	0.042	Data not Lognormal at 5% Significance Level	0.042
A		A I Black the state of the	
Assuming Normal Distribution 95% Student's-t UCL	0.0252	Assuming Lognormal Distribution 95% H-UCL	0.0219
95% UCLs (Adjusted for Skewness)	0.0202	95% Chebyshev (MVUE) UCL	0.0207
95% Adjusted-CLT UCL	0.0314	97.5% Chebyshev (MVUE) UCL	0.0257
95% Modified-t UCL	0.0264	99% Chebyshev (MVUE) UCL	0.0354
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.739	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.0165		
nu star Approximate Chi Square Value (.05)	14.78	Nonparametric Statistics	
Adjusted Level of Significance		95% CLT UCL	0.0239
Adjusted Chi Square Value	6.207		0.0252
Andrew Badina Test Obellate	0.770	95% Standard Bootstrap UCL	0.0233
Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value	2,773 0,75		0,307 0,171
Kolmogorov-Smirnov Test Statistic	0.505		0.0263
Kolmogorov-Smirnov 5% Critical Value	0.274	95% BCA Bootstrap UCL	0.0334
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	0.0431
Assuming Gamma Distribution		97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL	0.0565 0.0828
95% Approximate Gamma UCL	0.0254		5.5020
95% Adjusted Gamma UCL	0.0291		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.0431
Described All ODI (heart (h))			
Result or 1/2 SDL (benzo(b)fluoranthene)			
General Statistics Number of Valid Samples	10	Number of Unique Samples	10
Raw Statistics		Log-transformed Statistics	
Minimum		Minimum of Log Data	-5.658
Maximum		Maximum of Log Data	-2.865
Mean Median		Mean of log Data SD of log Data	-5,234 0,84
SD	0.00411		J,U4
Coefficient of Variation	1.777		
Skewness	3.157		

Relevant UCL Statistics		
Normal Distribution Test Shapiro Wilk Test Statistic	Lognormal Distribution Test	0.497
Shapiro Wilk Critical Value	0.393 Shapiro Wilk Test Statistic 0.842 Shapiro Wilk Critical Value	0.497
Data not Normal at 5% Significance Level	Data not Lognormal at 5% Significance Level	0,042
A		
Assuming Normal Distribution 95% Student's-t UCL	Assuming Lognormal Distribution 0,0191 95% H-UCL	0.0166
95% UCLs (Adjusted for Skewness)	95% Chebyshev (MVUE) UCL	0.016
95% Adjusted-CLT UCL	0.0238 97.5% Chebyshev (MVUE) UCL	0.0198
95% Modified-t UCL	0.02 99% Chebyshev (MVUE) UCL	0.0272
Gamma Distribution Test k star (bias corrected)	Data Distribution	
Theta Star	0.777 Data do not follow a Discernable Distribution (0.05) 0.0121	
nu star	15.53	
Approximate Chi Square Value (.05)	7,632 Nonparametric Statistics	
Adjusted Level of Significance	0.0267 95% CLT UCL	0.0181
Adjusted Chi Square Value	6,692 95% Jackknife UCL	0.0191
Andrew Badle West Old Ca	95% Standard Bootstrap UCL	0.0179
Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value	2.757 95% Bootstrap-t UCL	0.231 0.116
Kolmogorov-Smirnov Test Statistic	0,748 95% Hall's Bootstrap UCL 0,496 95% Percentile Bootstrap UCL	0.118
Kolmogorov-Smirnov 5% Critical Value	0.274 95% BCA Bootstrap UCL	0.0252
Data not Gamma Distributed at 5% Significance Level	95% Chebyshev(Mean, Sd) UCL	0.0325
-	97.5% Chebyshev(Mean, Sd) UCL	0.0424
Assuming Gamma Distribution	99% Chebyshev(Mean, Sd) UCL	0.062
95% Approximate Gamma UCL	0.0192	
95% Adjusted Gamma UCL	0.0218	
Potential UCL to Use	Use 95% Chebyshev (Mean, Sd) UCL	0,0325
	,,,,,,,,,	
m		
Result or 1/2 SDL (benzo(g,h,i)perylene)		
General Statistics		
Number of Valid Samples	10 Number of Unique Samples	9
Raw Statistics	Log-transformed Statistics	
Minimum	0.015 Minimum of Log Data	-4.2
Maximum Mean	0.083 Maximum of Log Data	-2,489 -3,896
Median	0.0241 Mean of log Data 0.0173 SD of log Data	0.508
SD	0.0208	5.555
Coefficient of Variation	0.866	
Skewness	3.104	
Delever A LIOI CARACTER		
Relevant UCL Statistics	Lognormal Distribution Test	
Normal Distribution Test Shapiro Wilk Test Statistic	Lognormal Distribution Test 0,458 Shapiro Wilk Test Statistic	0.581
Shapiro Wilk Critical Value	0.842 Shapiro Wilk Critical Value	0.842
Data not Normal at 5% Significance Level	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	Assuming Lognormal Distribution	
95% Student's-t UCL	0.0361 95% H-UCL	0,0337 0,0391
95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	95% Chebyshev (MVUE) UCL 0.0418 97.5% Chebyshev (MVUE) UCL	0.0461
95% Modified-t UCL	0,0372 99% Chebyshev (MVUE) UCL	0.0599
	,,,,	-,
Gamma Distribution Test	Data Distribution	
k star (bias corrected)	2.254 Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.0107	
nu star Approximate Chi Square Value (.05)	45.09 30.68 Nonparametric Statistics	
Adjusted Level of Significance	0.0267 95% CLT UCL	0.0349
Adjusted Chi Square Value	28,63 95% Jackknife UCL	0.0361
•	95% Standard Bootstrap UCL	0.034
Anderson-Darling Test Statistic	2.124 95% Bootstrap-t UCL	0.111
Anderson-Darling 5% Critical Value	0.732 95% Hall's Bootstrap UCL	0.0864
Kolmogorov-Smirnov Test Statistic	0.417 95% Percentile Bootstrap UCL	0.0365
Kolmogorov-Smirnov 5% Critical Value Data not Gamma Distributed at 5% Significance Level	0.268 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL	0.038 0.0527
Sala not Camina Distributed at 5% dignificance Level	97.5% Chebyshev(Mean, Sd) UCL	0.0527
Assuming Gamma Distribution	99% Chebyshev(Mean, Sd) UCL	0.0895
95% Approximate Gamma UCL	0.0353	
95% Adjusted Gamma UCL	0.0379	
Potential UCL to Use	Use 95% Chebyshev (Mean, Sd) UCL	0.0527
1 Sterikal OCE to OSE	USE 30 /0 Citebyshev (Wedail, 30) UCL	0.0527
D 1 40 001 4 4 5 3		
Result or 1/2 SDL (benzo(k)fluoranthene)		
General Statistics		
Number of Valid Samples	10 Number of Unique Samples	7
Pau Statistica	Log transformed Christian	
Raw Statistics	Log-transformed Statistics	

Minimum	0,00493	Minimum of Log Data	-5.313
Maximum	0.106	Maximum of Log Data	-2.244
Mean	0.0158	Mean of log Data	-4.861
Median	0.00575	SD of log Data	0.927
SD	0.0317		
Coefficient of Variation	2		
Skewness	3.16		
D. L			
Relevant UCL Statistics Normal Distribution Test		Legnermal Distribution Test	
	0.206	Lognormal Distribution Test	0.483
Shapiro Wilk Test Statistic		Shapiro Wilk Test Statistic	
Shapiro Wilk Critical Value	0.642	Shapiro Wilk Critical Value	0.842
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0342	95% H-UCL	0,0296
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0263
95% Adjusted-CLT UCL	0.043	97.5% Chebyshev (MVUE) UCL	0.0328
95% Modified-t UCL		99% Chebyshev (MVUE) UCL	0.0455
Gamma Distribution Test	0.044	Data Distribution	
k star (bias corrected)	0.0246	Data do not follow a Discernable Distribution (0.05)	
Theta Star			•
nu star	12.88		
Approximate Chi Square Value (.05)		Nonparametric Statistics 95% CLT UCL	0.0000
Adjusted Level of Significance	0.0267		0,0323
Adjusted Chi Square Value	5.014	95% Jackknife UCL	0.0342
Anderson Darling Toot Stati-11-	0.004	95% Standard Bootstrap UCL	0.0311
Anderson-Darling Test Statistic	2.864	•	0.608
Anderson-Darling 5% Critical Value	0.754 0.505		0.269 0.0358
Kolmogorov-Smirnov Test Statistic		•	
Kolmogorov-Smirnov 5% Critical Value	0.275	95% BCA Bootstrap UCL	0.046
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	0.0595
Accounts Common Distribution		97.5% Chebyshev(Mean, Sd) UCL	0.0784
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.116
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.0351 0.0407		
95% Aujusted Gariffia OCE	0.0407		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.0595
- "			
Result or 1/2 SDL (cadmium)			
0 (0.00)			
General Statistics	40	N. J. St. Lee B. Dec	•
General Statistics Number of Valid Samples	10	Number of Unique Samples	8
Number of Valid Samples	10		8
Number of Valid Samples Raw Statistics		Log-transformed Statistics	
Number of Valid Samples Raw Statistics Minimum	0.0075	Log-transformed Statistics Minimum of Log Data	-4.893
Number of Valid Samples Raw Statistics Minimum Maximum	0.0075 0.11	Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-4.893 -2.207
Number of Valid Samples Raw Statistics Minimum Maximum Mean	0.0075 0.11 0.0311	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-4.893 -2.207 -4.091
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	0.0075 0.11 0.0311 0.0095	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-4.893 -2.207
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	0.0075 0.11 0.0311 0.0095 0.0398	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-4.893 -2.207 -4.091
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation	0.0075 0.11 0.0311 0.0095 0.0398 1,283	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-4.893 -2.207 -4.091
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	0.0075 0.11 0.0311 0.0095 0.0398	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-4.893 -2.207 -4.091
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0075 0.11 0.0311 0.0095 0.0398 1,283	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-4.893 -2.207 -4.091
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics	0.0075 0.11 0.0311 0.0095 0.0398 1,283	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-4.893 -2.207 -4.091
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Lognormal Distribution Test	-4.893 -2.207 -4.091 1.081
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic	-4.893 -2.207 -4.091 1.081
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	-4.893 -2.207 -4.091 1.081
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic	-4.893 -2.207 -4.091 1.081
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	-4.893 -2.207 -4.091 1.081
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	0.0075 0.11 0.0311 0.0095 0.0098 1.283 1.571 0.641	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution	-4.893 -2.207 -4.091 1.081 0.713 0.842
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	4.893 -2.207 -4.091 1.081 0.713 0.842
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.0075 0.11 0.0311 0.095 0.0398 1.283 1.571 0.641 0.842	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-4.893 -2.207 -4.091 1.081 0.713 0.842
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	0.0075 0.11 0.0311 0.095 0.0398 1.283 1.571 0.641 0.842	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	4.893 -2.207 -4.091 1.081 0.713 0.842
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571 0.641 0.842	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test	0.0075 0.11 0.0311 0.095 0.0398 1.283 1.571 0.641 0.842 0.0541	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected)	0.0075 0.11 0.0311 0.0398 1.283 1.571 0.641 0.842 0.0541 0.0585 0.0552	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05)	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test	0.0075 0.11 0.0311 0.095 0.0398 1.283 1.571 0.641 0.842 0.0541	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05)	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected)	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571 0.641 0.842 0.0541 0.0585 0.0552	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05)	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (blas corrected) Theta Star	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571 0.641 0.842 0.0541 0.0585 0.0552	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05)	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (blas corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571 0.641 0.842 0.0541 0.0585 0.0552 0.725 0.0428 14.5 6.912	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% SIgnificance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05) Nonparametric Statistics 95% CLT UCL	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898 0.127
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (blas corrected) Theta Star nu star Approximate Chi Square Value (.05)	0.0075 0.11 0.0311 0.095 0.0398 1.283 1.571 0.641 0.842 0.0541 0.0585 0.0552 0.725 0.0428 14.5. 6.912	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05) Nonparametric Statistics 95% CLT UCL	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898 0.127
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (blas corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571 0.641 0.842 0.0541 0.0585 0.0552 0.725 0.0428 14.5 6.912	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% SIgnificance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05) Nonparametric Statistics 95% CLT UCL	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898 0.127
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (blas corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571 0.641 0.842 0.0541 0.0585 0.0552 0.725 0.0428 14.5 6.912	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05) Nonparametric Statistics 95% CLT UCL 95% Standard Bootstrap UCL	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898 0.127
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (blas corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571 0.641 0.0541 0.0585 0.0552 0.725 0.0428 14.5 6.912 0.0267 6.025	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05) Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898 0.127
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic	0.0075 0.11 0.0311 0.0095 0.0399 1.283 1.571 0.641 0.0541 0.0585 0.0552 0.725 0.0428 14.5 6.912 0.0267 6.025	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05) Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Hall's Bootstrap UCL	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898 0.127 0.0518 0.0541 0.0507 0.105
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling Test Statistic Anderson-Darling Test Statistic	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571 0.641 0.842 0.0541 0.0585 0.0552 0.725 0.0428 14.5 6.912 0.0267 6.025	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05) Nonparametric Statistics 95% CLT UCL 95% Standard Bootstrap UCL 95% Bootstrap-I UCL 95% Hall's Bootstrap UCL	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898 0.127 0.0518 0.0541 0.0541 0.0560 0.105 0.105 0.105
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (blas corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571 0.641 0.0585 0.0552 0.725 0.0428 14.5 6.912 0.0267 6.0267 6.0267 6.0267	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05) Nonparametric Statistics 95% CLT UCL 95% Standard Bootstrap UCL 95% Bootstrap-I UCL 95% Hall's Bootstrap UCL	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898 0.127 0.0507 0.105 0.0699 0.0515
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov Test Statistic	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571 0.641 0.0585 0.0552 0.725 0.0428 14.5 6.912 0.0267 6.0267 6.0267 6.0267	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Test Statistic Shapiro Wilk Tritical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL SOM Distribution Data do not follow a Discernable Distribution (0.05) Nonparametric Statistics 95% CLT UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% BCA Bootstrap UCL	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898 0.127 0.0518 0.0541 0.0507 0.105 0.0699 0.0515 0.0581
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov Test Statistic	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571 0.641 0.0585 0.0552 0.725 0.0428 14.5 6.912 0.0267 6.0267 6.0267 6.0267	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05) Nonparametric Statistics 95% CLT UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% Chebyshev (Mean, Sd) UCL	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898 0.127 0.0541 0.0561 0.0699 0.0515 0.0689 0.0881
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value Data not Gamma Distributed at 5% Significance Level	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571 0.641 0.0585 0.0552 0.725 0.0428 14.5 6.912 0.0267 6.0267 6.0267 6.0267	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05) Nonparametric Statistics 95% CLT UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Brecentile Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev (Mean, Sd) UCL	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898 0.127 0.0507 0.0507 0.0699 0.0515 0.0581 0.086 0.11
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov Test Statistic Assuming Gamma Distributed at 5% Significance Level Assuming Gamma Distribution	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571 0.641 0.0541 0.0585 0.0552 0.725 0.0428 14.5 6.912 0.0267 6.025 1.584 0.75 0.411 0.274	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05) Nonparametric Statistics 95% CLT UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Brecentile Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev (Mean, Sd) UCL	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898 0.127 0.0507 0.0507 0.0699 0.0515 0.0581 0.086 0.11
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (blas corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value Data not Gamma Distribution 95% Approximate Gamma UCL	0.0075 0.11 0.0311 0.095 0.0398 1.283 1.571 0.641 0.842 0.0541 0.0585 0.0552 0.725 0.0428 14.5 6.912 0.0267 6.025 1.584 0.75 0.411 0.274	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05) Nonparametric Statistics 95% CLT UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Brecentile Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev (Mean, Sd) UCL	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898 0.127 0.0507 0.0507 0.0699 0.0515 0.0581 0.086 0.11
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (blas corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value Data not Gamma Distribution 95% Approximate Gamma UCL	0.0075 0.11 0.0311 0.095 0.0398 1.283 1.571 0.641 0.842 0.0541 0.0585 0.0552 0.725 0.0428 14.5 6.912 0.0267 6.025 1.584 0.75 0.411 0.274	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05) Nonparametric Statistics 95% CLT UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Brecentile Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev (Mean, Sd) UCL	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898 0.127 0.0507 0.0507 0.0699 0.0515 0.0581 0.086 0.11

Recommended UCL exceeds the maximum observation

Result or 1/2 SDL (carbazole)

Result of 1/2 SDL (carbazole)			
General Statistics Number of Valid Samples	10	Number of Unique Samples	9
Raw Statistics Minimum Maximum Mean Median	0.011 0.00512	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-5.583 -4.51 -5.328 0.312
SD Coefficient of Variation Skewness	0.00214 0.418 2.781		
Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value		Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.731 0.842
Data not Normal at 5% Significance Level	0,5 (2	Data not Lognormal at 5% Significance Level	5.5.2
Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL	0.00636 0.00687 0.00646	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	0.00627 0.00727 0.00822 0.0101
Gamma Distribution Test k star (bias corrected) Theta Star nu star	6.758 7.57E-04 135.2		
Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value	0,0267 105.3	95% Jackknife UCL 95% Standard Bootstrap UCL	0.00623 0.00636 0.0062
Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value Data not Gamma Distributed at 5% Significance Level	1.249 0.725 0.286 0.267	95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL	0.00912 0.0106 0.00636 0.00679 0.00807 0.00934
Assuming Gamma Distribution 95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.00633 0.00657	99% Chebyshev(Mean, Sd) UCL	0.0119
Potential UCL to Use	•	Use 95% Student's-t UCL or 95% Modified-t UCL	0.00636 0.00646
Result or 1/2 SDL (chromium)			
General Statistics Number of Valid Samples	10	Number of Unique Samples	9
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	20.1 15.2		2.37 3.001 2.703 0.199
Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level		Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level	0.945 0.842
Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL		Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	17.26 19.39 21.21 24.77
Gamma Distribution Test k star (bias corrected) Theta Star nu star	0,767 396.2		
Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic	351.1 0.0267 343.7 0.388	95% Jackknife UCL 95% Standard Bootstrap UCL	16.77 16.95 16.7 17.01
	5,550		

Anderson-Darling 5% Critical Value	0.725	95% Hall's Bootstrap UCL	16.75
Kolmogorov-Smirnov Test Statistic	0.205	95% Percentile Bootstrap UCL	16,71
Kolmogorov-Smirnov 5% Critical Value		95% BCA Bootstrap UCL	16.74
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	19.36
Assuming Gamma Distribution		97.5% Chebyshev(Mean, Sd) UCL	21.16 24.7
95% Approximate Gamma UCL	17.15	99% Chebyshev(Mean, Sd) UCL	24.7
95% Adjusted Gamma UCL	17.52		
Potential UCL to Use		Use 95% Student's-t UCL	16,95
David and 10 ODL (allows a h			
Result or 1/2 SDL (chrysene)			
General Statistics			
Number of Valid Samples	10	Number of Unique Samples	6
Down Obertailer		I i i i i i i i i i i i i i i i i i i i	
Raw Statistics Minimum	0.000	Log-transformed Statistics Minimum of Log Data	-5,116
Maximum		Maximum of Log Data	-2.489
Mean		Mean of log Data	-4.742
Median		SD of log Data	0.8
SD	0.0241	_	
Coefficient of Variation	1.668		
Skewness	3.156		
Relevant UCL Statistics			
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.395	Shapiro Wilk Test Statistic	0.493
Shapiro Wilk Critical Value		Shapiro Wilk Critical Value	0,842
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0284	95% H-UCL	0.0247 0.0247
95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	0.0254	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	0.0247
95% Modified-t UCL		99% Chebyshev (MVUE) UCL	0.0303
507/ Middined (50E	0.0207	33 % Oricelyshov (MVGE) BGE	0.0-11
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.856	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.0169		
nu star	17.12		
Approximate Chi Square Value (.05)		Nonparametric Statistics	0.007
Adjusted Level of Significance	0.0267		0.027
Adjusted Chi Square Value	7.74	95% Jackknife UCL 95% Standard Bootstrap UCL	0.0284 0.0264
Anderson-Darling Test Statistic	2 737	95% Bootstrap-t UCL	0,307
Anderson-Darling 5% Critical Value		95% Hall's Bootstrap UCL	0.154
Kolmogorov-Smirnov Test Statistic	0.496		0.0296
Kolmogorov-Smirnov 5% Critical Value	0.273	•	0.0372
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	0.0477
		97.5% Chebyshev(Mean, Sd) UCL	0.062
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0,0903
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0,0282 0,032		
95 % Adjusted Gariffia OCL	0.032		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.0477
		·	
Result or 1/2 SDL (copper)			
General Statistics			
Number of Valid Samples	10	Number of Unique Samples	10
·		•	
Raw Statistics		Log-transformed Statistics	
Minimum		Minimum of Log Data	2.039
Maximum		Maximum of Log Data	2.96
Mean		Mean of log Data	2.449
Median SD		SD of log Data	0.313
Coefficient of Variation	3,955 0,326		
Skewness	0.802		
Relevant UCL Statistics			
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic		Shapiro Wilk Test Statistic	0,948
Shapiro Wilk Critical Value	0.842	Shapiro Wilk Critical Value	0.842
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	14.41		14,96
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	17.35
95% Adjusted-CLT UCL	14.51	97.5% Chebyshev (MVUE) UCL	19.63
95% Modified-t UCL		99% Chebyshev (MVUE) UCL	24.1
O BUILDING TO		5 . B	
Gamma Distribution Test		Data Distribution	

k star (bias corrected) Theta Star nu star	1.529 158.4			
Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value	0,0267 125.9	95% Jackknife UCL	14.17 14.41	
Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value Data appear Gamma Distributed at 5% Significance Leve	0,317 0,725 0,175 0,267	95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL	14.08 15.03 14.63 14.04 14.54 17.57 19.93	
Assuming Gamma Distribution 95% Approximate Gamma UCL 95% Adjusted Gamma UCL	14.73 15.25	99% Chebyshev(Mean, Sd) UCL	24.56	
Potential UCL to Use		Use 95% Student's-t UCL	14.41	
Result or 1/2 SDL (fluoranthene)				
General Statistics Number of Valid Samples	10	Number of Unique Samples	7	
Raw Statistics Minimum	0.00486	Log-transformed Statistics Minimum of Log Data	-5.328	
Maximum	0.156	Maximum of Log Data	-1.858	
Mean Median		Mean of log Data SD of log Data	-4.834 1.053	
SD Coefficient of Variation	0.0475 2,286			
Skewness	3.161			
Relevant UCL Statistics Normal Distribution Test		Lognormal Distribution Test		
Shapiro Wilk Test Statistic		Shapiro Wilk Test Statistic	0.477	
Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	0.842	Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	0.842	
Assuming Normal Distribution 95% Student's-t UCL	0.0483	Assuming Lognormal Distribution 95% H-UCL	0.0428	
95% UCLs (Adjusted for Skewness)	0.0045	95% Chebyshev (MVUE) UCL	0.0324	
95% Adjusted-CLT UCL 95% Modified-t UCL		97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	0.0409 0.0575	
Gamma Distribution Test	0.512	Data Distribution Data do not follow a Discernable Distribution (0,05)		
k star (bias corrected) Theta Star	0.0405	· ·		
nu star Approximate Chi Square Value (.05)	10.26 4 106	Nonparametric Statistics		
Adjusted Level of Significance	0.0267	95% CLT UCL	0.0455	
Adjusted Chi Square Value	3.456	95% Jackknife UCL 95% Standard Bootstrap UCL	0.0483 0.0443	
Anderson-Darling Test Statistic	2.929	•	1.171	
Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic	0.766 0.515		0.527 0.0508	
Kolmogorov-Smirnov 5% Critical Value		95% BCA Bootstrap UCL	0,0659	
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL	0,0863 0.115	
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.17	
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.0519 0.0617			
Potential UCL to Use Recommended UCL exceeds the maximum observation		Use 99% Chebyshev (Mean, Sd) UCL	0.17	
Result or 1/2 SDL (indeno(1,2,3-cd)pyrene)				
General Statistics Number of Valid Samples	10	Number of Unique Samples	9	
Raw Statistics		Log-transformed Statistics		
Minimum		Minimum of Log Data	-4.382 0.975	
Maximum Mean		Maximum of Log Data Mean of log Data	-0.875 -3.88	
Median	0.0148	SD of log Data	1.063	
SD Coefficient of Variation	0.127 2.308			
Skewness	3.161			
Relevant UCL Statistics		Language Distribution Tor		
Normal Distribution Test Shapiro Wilk Test Statistic	0.379	Lognormal Distribution Test Shapiro Wilk Test Statistic	0.47	
Shapiro Wilk Critical Value		Shapiro Wilk Critical Value	0.842	

Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Agguning Normal Distribution		Accoming Lagranged Distribution	
Assuming Normal Distribution 95% Student's-t UCL	0.129	Assuming Lognormal Distribution 95% H-UCL	0.114
95% UCLs (Adjusted for Skewness)	0.129	95% Chebyshev (MVUE) UCL	0.114
95% Adjusted-CLT UCL	0.164	97.5% Chebyshev (MVUE) UCL	0.108
95% Modified-t UCL		99% Chebyshev (MVUE) UCL	0.152
		, , , , , , , , , , , , , , , , , , , ,	
Gamma Distribution Test		Data Distribution	
k star (bias corrected)		Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.109		
nu star	10.09		
Approximate Chi Square Value (.05) Adjusted Level of Significance		Nonparametric Statistics 95% CLT UCL	0.121
Adjusted Chi Square Value		95% Jackknife UCL	0.129
Adjusted Offi Oquate Value	3.30	95% Standard Bootstrap UCL	0.119
Anderson-Darling Test Statistic	2.966	95% Bootstrap-t UCL	3.62
Anderson-Darling 5% Critical Value	0.767	•	1.642
Kolmogorov-Smirnov Test Statistic	0.523	•	0.135
Kolmogorov-Smirnov 5% Critical Value	0.278	95% BCA Bootstrap UCL	0.175
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	0.23
		97.5% Chebyshev(Mean, Sd) UCL	0,306
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.455
95% Approximate Gamma UCL	0.139		
95% Adjusted Gamma UCL	0.166		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.455
Recommended UCL exceeds the maximum observation			
Populk or 1/2 CDL (load)			
Result or 1/2 SDL (lead)			
General Statistics		Nicolar of Delaya Complete	_
Number of Valid Samples	10	Number of Unique Samples	9
Raw Statistics		Log-transformed Statistics	
Minimum	11	Minimum of Log Data	2.398
Maximum		Maximum of Log Data	2.721
Mean		Mean of log Data	2.591
Median		SD of log Data	0.118
SD	1.547		
Coefficient of Variation	0.115		
Skewness	-0.326		
Relevant UCL Statistics			
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.913	Shapiro Wilk Test Statistic	0.909
Shapiro Wilk Critical Value		Shapiro Wilk Critical Value	0.842
Data appear Normal at 5% Significance Level	0,0 12	Data appear Lognormal at 5% Significance Level	5.5 12
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	14.33	95% H-UCL	14.43
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	15.62
95% Adjusted-CLT UCL 95% Modified-t UCL		97.5% Chebyshev (MVUE) UCL	16.56
95% Modified-t UCL	14.32	99% Chebyshev (MVUE) UCL	18.42
Gamma Distribution Test		Data Distribution	
k star (bias corrected)		Data appear Normal at 5% Significance Level	
Theta Star	0.236		
nu star	1140	N	
Approximate Chi Square Value (.05)		Nonparametric Statistics	44.00
Adjusted Level of Significance	0.0267	95% CLT UCL	14.23
Adjusted Chi Square Value	1050	95% Jackknife UCL 95% Standard Bootstrap UCL	14.33 14.18
Anderson-Darling Test Statistic	0,379		14.10
Anderson-Darling 5% Critical Value	0.724		14.11
Kolmogorov-Smirnov Test Statistic	0.169	•	14.17
Kolmogorov-Smirnov 5% Critical Value	0.266		14.15
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	15,56
_		97.5% Chebyshev(Mean, Sd) UCL	16.49
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	18.3
95% Approximate Gamma UCL	14.41		
95% Adjusted Gamma UCL	14.59		
Potential UCL to Use		Use 95% Student's-t UCL	14.33
Decult or 4/2 PDL (lithium)			
Result or 1/2 SDL (lithium)			
General Statistics	40	Number of Unique Samples	10
Number of Valid Samples	10	Number of Unique Samples	10
Raw Statistics		Log-transformed Statistics	
Minimum		Minimum of Log Data	2.667
Maximum		Maximum of Log Data	3.481
Mean	21.14	Mean of log Data	3.027

Median SD Coefficient of Variation Skewness	19.9 5.166 0.244 1.214		0.229
Relevant UCL Statistics Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.912	Shapiro Wilk Test Statistic	0.965
Shapiro Wilk Critical Value	0.842	Shapiro Wilk Critical Value	0.842
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	24.13	95% H-UCL	24.5
95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	24.5	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	27.82 30.72
95% Modified-t UCL		99% Chebyshev (MVUE) UCL	36.42
O Distribution Test		Data Distribution	
Gamma Distribution Test k star (bias corrected)	14.43	Data Distribution Data appear Normal at 5% Significance Level	
Theta Star	1.465		
nu star	288.6		
Approximate Chi Square Value (.05) Adjusted Level of Significance	0.0267	Nonparametric Statistics 95% CLT UCL	23,83
Adjusted Chi Square Value	244.1	95% Jackknife UCL	24.13
Anderson Derline Test Statistic	0 244	95% Standard Bootstrap UCL	23.71
Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value	0.311 0.725	•	26.29 40.64
Kolmogorov-Smirnov Test Statistic	0,2	•	23.88
Kolmogorov-Smirnov 5% Critical Value	0.266		24.4 28.26
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL	26.26 31.34
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	37.39
95% Approximate Gamma UCL	24.38		•
95% Adjusted Gamma UCL	25		
Potential UCL to Use		Use 95% Student's-t UCL	24.13
Result or 1/2 SDL (manganese)			
General Statistics Number of Valid Samples	10	Number of Unique Samples	9
,,_,,_,, ,,,,_,,,,,,,,,,,,,,,,,,,,,,,,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_
Raw Statistics	00.4	Log-transformed Statistics	5.040
Minimum Maximum		Minimum of Log Data Maximum of Log Data	5.649 6.312
Mean		Mean of log Data	5,909
Median SD		SD of log Data	0.227
Coefficient of Variation	93.76 0.248		
Skewness	1.28		
Relevant UCL Statistics			
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic		Shapiro Wilk Test Statistic	0.843
Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	0.842	Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level	0.842
Data not Normal at 5% significance cever		Data appear Logitorniar at 5% digrillicance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	431.8	95% H-UCL 95% Chebyshev (MVUE) UCL	436.5 495.4
95% Adjusted-CLT UCL	439	97.5% Chebyshev (MVUE) UCL	546.6
95% Modified-t UCL	433.8	99% Chebyshev (MVUE) UCL	647.4
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	14.38	Data appear Lognormal at 5% Significance Level	
Theta Star	26.25		
Approximate Chi Square Value (.05)	287.6 249.3	Nonparametric Statistics	
Adjusted Level of Significance	0.0267	95% CLT UCL	426,2
Adjusted Chi Square Value	243.1	95% Jackknife UCL 95% Standard Bootstrap UCL	431.8 422.7
Anderson-Darling Test Statistic	0.85	•	422.7 494.2
Anderson-Darling 5% Critical Value	0.725	95% Hail's Bootstrap UCL	681.2
Kolmogorov-Smirnov Test Statistic	0.284		425.6
Kolmogorov-Smirnov 5% Critical Value Data not Gamma Distributed at 5% Significance Level	0.266	95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL	436.6 506.6
-		97.5% Chebyshev(Mean, Sd) UCL	562.6
Assuming Gamma Distribution	405.0	99% Chebyshev(Mean, Sd) UCL	672.4
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	435.3 446.4		
·			4= -
Potential UCL to Use		Use 95% Student's-t UCL or 95% Modified-t UCL	431.8 433.8
			436.5
		or 95% H-UCL	430.5

Result or 1/2 SDL (mercury)

Result of 172 SDE (Hiercury)			
General Statistics Number of Valid Samples	10	Number of Unique Samples	8
Raw Statistics		Log-transformed Statistics	
Minimum	0.015	Minimum of Log Data	-4.2
Maximum		Maximum of Log Data	-3.507
Mean		Mean of log Data	-3.871
Median SD	0.0195	SD of log Data	0.217
Coefficient of Variation	0.00475		
Skewness	0.734		
Relevant UCL Statistics			
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic		Shapiro Wilk Test Statistic	0.937
Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level	0.042	Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level	0.842
		., -	
Assuming Normal Distribution 95% Student's-t UCL	0.0241	Assuming Lognormal Distribution 95% H-UCL	0.0245
95% UCLs (Adjusted for Skewness)	0.02-71	95% Chebyshev (MVUE) UCL	0.0277
95% Adjusted-CLT UCL	0.0242	97.5% Chebyshev (MVUE) UCL	0.0305
95% Modified-t UCL	0.0241	99% Chebyshev (MVUE) UCL	0.0359
Gamma Distribution Test		Data Distribution	
k star (bias corrected)		Data appear Normal at 5% Significance Level	
Theta Star	0.00131		
nu star	326.1	Nonnerowatrio Challation	
Approximate Chi Square Value (.05) Adjusted Level of Significance	0.0267	Nonparametric Statistics 95% CLT UCL	0.0238
Adjusted Chi Square Value		95% Jackknife UCL	0.0241
·		95% Standard Bootstrap UCL	0.0236
Anderson-Darling Test Statistic		95% Bootstrap-t UCL	0.0246
Anderson-Darling 5% Critical Value		95% Hall's Bootstrap UCL	0.024
Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value	0.266	95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL	0.0238 0.0239
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	0.0279
		97.5% Chebyshev(Mean, Sd) UCL	0.0308
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0364
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.0243 0.0249		
55 % Adjusted Gamma OCL	0.0248		
Potential UCL to Use	0.0243	Use 95% Student's-t UCL	0.0241
·	0.0243	Use 95% Student's-t UCL	0.0241
Potential UCL to Use	0.0243	Use 95% Student's-t UCL	0.0241
Potential UCL to Use Result or 1/2 SDL (molybdenum)		Use 95% Student's-t UCL Number of Unique Samples	0.0241
Potential UCL to Use Result or 1/2 SDL (molybdenum) General Statistics			
Potential UCL to Use Result or 1/2 SDL (molybdenum) General Statistics Number of Valid Samples Raw Statistics Minimum	10	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	10 -0,868
Potential UCL to Use Result or 1/2 SDL (molybdenum) General Statistics Number of Valid Samples Raw Statistics Minimum Maximum	10 0.42 0.68	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	10 -0.868 -0.386
Potential UCL to Use Result or 1/2 SDL (molybdenum) General Statistics Number of Valid Samples Raw Statistics Minimum Maximum Mean	0.42 0.68 0.522	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-0.868 -0.386 -0.659
Potential UCL to Use Result or 1/2 SDL (molybdenum) General Statistics Number of Valid Samples Raw Statistics Minimum Maximum	10 0.42 0.68 0.522 0.505	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	10 -0.868 -0.386
Potential UCL to Use Result or 1/2 SDL (molybdenum) General Statistics Number of Valid Samples Raw Statistics Minimum Maximum Mean Mean Median	0.42 0.68 0.522	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-0.868 -0.386 -0.659
Potential UCL to Use Result or 1/2 SDL (molybdenum) General Statistics Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	0.42 0.68 0.522 0.505 0.0739	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-0.868 -0.386 -0.659
Potential UCL to Use Result or 1/2 SDL (molybdenum) General Statistics Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation	0.42 0.68 0.522 0.505 0.0739 0.142	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-0.868 -0.386 -0.659
Potential UCL to Use Result or 1/2 SDL (molybdenum) General Statistics Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test	0.42 0.68 0.522 0.505 0.0739 0.142 0.94	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Lognormal Distribution Test	-0.868 -0.386 -0.659 0.137
Potential UCL to Use Result or 1/2 SDL (molybdenum) General Statistics Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic	0.42 0.68 0.522 0.505 0.0739 0.142 0.94	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic	-0.868 -0.386 -0.659 0.137
Potential UCL to Use Result or 1/2 SDL (molybdenum) General Statistics Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test	0.42 0.68 0.522 0.505 0.0739 0.142 0.94	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Lognormal Distribution Test	-0.868 -0.386 -0.659 0.137
Result or 1/2 SDL (molybdenum) General Statistics Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level	0.42 0.68 0.522 0.505 0.0739 0.142 0.94	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level	-0.868 -0.386 -0.659 0.137
Potential UCL to Use Result or 1/2 SDL (molybdenum) General Statistics Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution	0.42 0.68 0.522 0.505 0.0739 0.142 0.94	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution	-0.868 -0.386 -0.659 0.137
Result or 1/2 SDL (molybdenum) General Statistics Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level	0.42 0.68 0.522 0.505 0.0739 0.142 0.94	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution	-0.868 -0.386 -0.659 0.137
Potential UCL to Use Result or 1/2 SDL (molybdenum) General Statistics Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	0.42 0.68 0.522 0.505 0.0739 0.142 0.94 0.947 0.842	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	0.868 -0.386 -0.659 0.137 0.974 0.842 0.568 0.621 0.663
Potential UCL to Use Result or 1/2 SDL (molybdenum) General Statistics Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.42 0.68 0.522 0.505 0.0739 0.142 0.94 0.947 0.842	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-0.868 -0.386 -0.659 0.137 0.974 0.842
Potential UCL to Use Result or 1/2 SDL (molybdenum) General Statistics Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	0.42 0.68 0.522 0.505 0.0739 0.142 0.94 0.947 0.842	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	0.868 -0.386 -0.659 0.137 0.974 0.842 0.568 0.621 0.663
Result or 1/2 SDL (molybdenum) General Statistics Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected)	0.42 0.68 0.522 0.505 0.0739 0.142 0.94 0.947 0.842 0.565 0.566	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Normal at 5% Significance Level	0.868 -0.386 -0.659 0.137 0.974 0.842 0.568 0.621 0.663
Result or 1/2 SDL (molybdenum) General Statistics Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star	0.42 0.68 0.522 0.505 0.0739 0.142 0.94 0.947 0.842 0.565 0.566	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Normal at 5% Significance Level	0.868 -0.386 -0.659 0.137 0.974 0.842 0.568 0.621 0.663
Potential UCL to Use Result or 1/2 SDL (molybdenum) General Statistics Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star	0.42 0.68 0.522 0.505 0.0739 0.142 0.94 0.947 0.842 0.565 0.566 40.85 0.0128 817	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Mean of log Data Mean of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Normal at 5% Significance Level	0.868 -0.386 -0.659 0.137 0.974 0.842 0.568 0.621 0.663
Result or 1/2 SDL (molybdenum) General Statistics Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05)	0.42 0.68 0.522 0.505 0.0739 0.142 0.94 0.947 0.842 0.565 0.568 0.566 40.85 0.0128 817 751.7	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Normal at 5% Significance Level Nonparametric Statistics	0.868 -0.386 -0.659 0.137 0.974 0.842 0.568 0.621 0.663 0.747
Potential UCL to Use Result or 1/2 SDL (molybdenum) General Statistics Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star	0.42 0.68 0.522 0.505 0.0739 0.142 0.94 0.947 0.842 0.565 0.566 40.85 0.0128 817	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL Data Distribution Data appear Normal at 5% Significance Level Nonparametric Statistics 95% CLT UCL	0.868 -0.386 -0.659 0.137 0.974 0.842 0.568 0.621 0.663
Result or 1/2 SDL (molybdenum) General Statistics Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance	0.42 0.68 0.522 0.505 0.0739 0.142 0.94 0.947 0.842 0.565 0.566 0.566 40.85 0.0128 817 751,7 0.0267	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL Data Distribution Data appear Normal at 5% Significance Level Nonparametric Statistics 95% CLT UCL	0.868 -0.386 -0.659 0.137 0.974 0.842 0.568 0.621 0.663 0.747 0.566 0.565 0.565
Result or 1/2 SDL (molybdenum) General Statistics Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic	0.42 0.68 0.522 0.505 0.0739 0.142 0.94 0.947 0.842 0.565 0.568 0.566 40.85 0.0128 817 751.7 0.0267 740.8	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Normal at 5% Significance Level Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Standard Bootstrap UCL	0.868 -0.386 -0.659 0.137 0.974 0.842 0.568 0.621 0.663 0.747 0.56 0.565 0.565 0.579
Result or 1/2 SDL (molybdenum) General Statistics Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling Test Statistic Anderson-Darling Test Statistic	0.42 0.68 0.522 0.505 0.0739 0.142 0.94 0.947 0.842 0.565 0.566 40.85 0.0128 817 751.7 0.0267 740.8	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Normal at 5% Significance Level Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Hall's Bootstrap UCL	0.868 -0.386 -0.659 0.137 0.974 0.842 0.568 0.621 0.663 0.747 0.56 0.565 0.565 0.579 0.59
Result or 1/2 SDL (molybdenum) General Statistics Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic	0.42 0.68 0.522 0.505 0.0739 0.142 0.94 0.947 0.842 0.565 0.568 0.566 40.85 0.0128 817 751.7 0.0267 740.8	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Mean of log Data Mean of log Data Mean of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL 95% Chebyshev (MVUE) UCL 95% CLT UCL 95% Jackknife UCL 95% Jackknife UCL 95% Bootstrap-t UCL 95% Percentile Bootstrap UCL	0.868 -0.386 -0.659 0.137 0.974 0.842 0.568 0.621 0.663 0.747 0.56 0.565 0.565 0.579

Data appear Gamma Distributed at 5% Significance Level Assuming Gamma Distribution 95% Approximate Gamma UCL	0.567		0.624 0.668 0.755	
95% Adjusted Gamma UCL Potential UCL to Use	0,576	Use 95% Student's-t UCL	0,565	
Result or 1/2 SDL (phenanthrene)				
General Statistics Number of Valid Samples	10	Number of Unique Samples	10	
Raw Statistics Minimum	0.00286	Log-transformed Statistics Minimum of Log Data	-5.859	
Maximum	0.137	Maximum of Log Data	-1.988	
Mean Median		Mean of log Data SD of log Data	-5,327 1,179	
SD	0,0423	•	7.170	
Coefficient of Variation Skewness	2.525 3.162		,	
Relevant UCL Statistics Normal Distribution Test		Lognormal Distribution Test		
Shapiro Wilk Test Statistic		Shapiro Wilk Test Statistic	0,459	
Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	0.842	Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	0,842	
Assuming Normal Distribution		Assuming Lognormal Distribution		
95% Student's-t UCL	0.0412	95% H-UCL	0.0383	
95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	ח חדים	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	0.0239 0.0304	
95% Modified-t UCL		99% Chebyshev (MVUE) UCL	0.0304	
Gamma Distribution Test		Data Distribution		
k star (bias corrected)		Data do not follow a Discernable Distribution (0.05)		
Theta Star nu star	0.0394 8,497			
Approximate Chi Square Value (.05)	3.026	Nonparametric Statistics		
Adjusted Level of Significance Adjusted Chi Square Value	0.0267 2.487	95% CLT UCL 95% Jackknife UCL	0.0387 0.0412	
		95% Standard Bootstrap UCL	0.0378	
Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value		95% Bootstrap-t UCL 95% Hail's Bootstrap UCL	1.724 0,748	
Kolmogorov-Smirnov Test Statistic		95% Percentile Bootstrap UCL	0.0434	
Kolmogorov-Smirnov 5% Critical Value Data not Gamma Distributed at 5% Significance Level	0.281	95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL	0.0568 0.075	
· ·		97.5% Chebyshev(Mean, Sd) UCL	0.1	
Assuming Gamma Distribution 95% Approximate Gamma UCL	0.047	99% Chebyshev(Mean, Sd) UCL	0.15	
95% Adjusted Gamma UCL	0.0572			
Potential UCL to Use Recommended UCL exceeds the maximum observation		Use 99% Chebyshev (Mean, Sd) UCL	0.15	
Result or 1/2 SDL (pyrene)				
General Statistics				
Number of Valid Samples	10	Number of Unique Samples	7	
Raw Statistics Minimum	0.000	Log-transformed Statistics Minimum of Log Data	-4.768	
Maximum		Maximum of Log Data	-4.766 -2.064	
Mean Median		Mean of log Data SD of log Data	-4.347 0.811	
SD	0.037		0.011	
Coefficient of Variation Skewness	1,696 3,156			
Relevant UCL Statistics				
Normal Distribution Test		Lognormal Distribution Test		
Shapiro Wilk Test Statistic Shapiro Wilk Critical Value		Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.501 0.842	
Data not Normal at 5% Significance Level	/2	Data not Lognormal at 5% Significance Level		
Assuming Normal Distribution		Assuming Lognormal Distribution		
95% Student's-t UCL	0.0432	95% H-UCL	0.0376	
95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	0.0535	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	0,0373 0.046	
95% Modified-t UCL		99% Chebyshev (MVUE) UCL	0.063	
Gamma Distribution Test		Data Distribution		
k star (bias corrected)		Data do not follow a Discernable Distribution (0.05)		
Theta Star	0.0262			

nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value Data not Gamma Distributed at 5% Significance Level Assuming Gamma Distribution 95% Approximate Gamma UCL 95% Adjusted Gamma UCL	16.67 8.437 Nonparametric Statistics 0.0267 95% CLT UCL 7.441 95% Standard Bootstrap UCL 95% Standard Bootstrap UCL 2.722 95% Bootstrap-t UCL 0.747 95% Hall's Bootstrap UCL 0.493 95% Percentile Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL 0.0431 0.0488	0.041 0.0432 0.0404 0.464 0.239 0.0452 0.0564 0.0728 0.0948
Potential UCL to Use	Use 95% Chebyshev (Mean, Sd) UCL	0.0728
Result or 1/2 SDL (zinc) General Statistics		
Number of Valid Samples	10 Number of Unique Samples	10
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	Log-transformed Statistics 36.6 Minimum of Log Data 969 Maximum of Log Data 247 Mean of log Data 75.5 SD of log Data 364.6 1.476 1.694	3.6 6.876 4.667 1.272
Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	Lognormal Distribution Test 0.62 Shapiro Wilk Test Statistic 0.842 Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	0.795 0.842
Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL	Assuming Lognormal Distribution 458.3 95% H-UCL 95% Chebyshev (MVUE) UCL 502.6 97.5% Chebyshev (MVUE) UCL 468.6 99% Chebyshev (MVUE) UCL	1141 602.7 772.1 1105
Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05)	Data Distribution 0.567 Data do not follow a Discernable Distribution (0.05 435.3 11.35 4.8 Nonparametric Statistics	
Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic	0.0267 95% CLT UCL 4.085 95% Jackknife UCL 95% Standard Bootstrap UCL 1.247 95% Bootstrap-t UCL	436.6 458.3 426.1 1346
Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic	0.76 95% Hall's Bootstrap UCL 0.346 95% Percentile Bootstrap UCL	1691 430.3
Kolmogorov-Smirnov 5% Critical Value Data not Gamma Distributed at 5% Significance Level	0.277 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL	496.4 749.5 967
Assuming Gamma Distribution 95% Approximate Gamma UCL 95% Adjusted Gamma UCL	99% Chebyshev(Mean, Sd) UCL 583.8 685.9	1394
Potential UCL to Use Recommended UCL exceeds the maximum observation	Use 99% Chebyshev (Mean, Sd) UCL	1394

APPENDIX A-6

INTRACOASTAL WATERWAY SEDIMENT

and the second s	· Person in the water of the Police page in the Section of the	Terranso coravintos	Power and a Common and a factor of the common and t	Lagrage organizacy () is a
11a-c O-lasted Oatland	General UCL Statistic	s for Full Da	ita Sets	P. P. P. C.
User Selected Options	_ (A 1 - 1	A OTIETO A MENSION LA LES DI MAZOE DA LA	
From File	OFF	(data querie	es oct 07\EPC tables with onehalf DL\IWSE Data - Just site	data.wst
Full Precision				
Confidence Coefficient	95%	*******************************		
Number of Bootstrap Operations	2000	#1 184 PP 184 PP 1 11 PP 8 4p 184 Ap 184 Ap 184 Ap 194 Ap 194 Ap 184 Ap		
Result or 1/2 SDL (1,2-dichloroet	hane)			***************************************
		General	Statistics	
N	lumber of Valid Samples	16	Number of Unique Samples	16
Raw S	Statistics		Log-transformed Statistics	
illiri kiristiya qualifiri ir ikilo kiristina kiristina ir iraqua aqqqqqqqqa qaalaa laka kiqiri iraq kirib kiq	Minimum	9.2000E-5	Minimum of Log Data	-9.294
anti anggipan galanta spirin gapangangalaga angan angan angan angan angan angan angan angan angan angan angan a	Maximum	0.0030		-5.802
Ar isten tip en stepten og men men sem stefen av stræmferet fler skypter av deret president fleret skyreter av	Mean	4.1025E-4	Mean of log Data	-8.349
ta maan ja min najawaan na sa daalaa ka mada ayaa ka a		1.7900E-4	SD of log Data	0.893
an arang salam Amatan sa arang sa sa sarang sa makaka Anto Ibani sa bara sa batan sa 1616 sa 1616 sa 1616 sa	SD	7.0923E-4		
annaturi (apentre mentre este este este este este este este e	Coefficient of Variation	1.729		
	Skewness	3.752		
		Relevant UO	CL Statistics	
Normal Dis	tribution Test		Lognormal Distribution Test	******************************
St	napiro Wilk Test Statistic	0.432	Shapiro Wilk Test Statistic	0.832
Sh	apiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.887
Data not Normal at 5	5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Nor	mal Distribution	ye astan i Valondan aran afsir saran ma'landa.	Assuming Lognormal Distribution	
an tana tana ee ee ee ee ee aan aa aa aa aa aa aa aa aa aa aa aa aa	95% Student's-t UCL	7.2108E-4	95% H-UCL	6.3456E-
95% UCLs (Adju	isted for Skewness)	£	95% Chebyshev (MVUE) UCL	7.0066E-
HITTER LITTER PRESENT OF THE COMMENT	95% Adjusted-CLT UCL	8.7963E-4	97.5% Chebyshev (MVUE) UCL	8.5627E-
	95% Modified-t UCL	7.4880E-4	99% Chebyshev (MVUE) UCL	0.00
Gamma Dis	tribution Test	and and the first and an artist of the first	Data Distribution	
annan sannaga annan an annan an an annan an annan agus an agus an teanna agus agus an agus agus an an	k star (bias corrected)	0.889	Data do not follow a Discernable Distribution (0.0)5)
appringen fra managaran far maran men men kabulut in 1860 dap kanda menden dan distrikti mendipan besar 1869 b	Theta Star	4.6126E-4		
THE PARTICULAR PROPERTY OF THE PARTY OF THE	nu star	28.46		haar kan er of de kroger en de ke de de de de de krof de krof ke krof de k
Approximate	Chi Square Value (.05)	17.29	Nonparametric Statistics	the fifth of the ballion and analysis returns
Adjust	ed Level of Significance	0.0335	95% CLT UCL	7.0189E-
Adj	usted Chi Square Value	16.3	95% Jackknife UCL	7.2108E-
			95% Standard Bootstrap UCL	6.9181E-
Anderse	on-Darling Test Statistic	1.681	95% Bootstrap-t UCL	0.00
	Parling 5% Critical Value	0.763	95% Hall's Bootstrap UCL	0.00
Kolmogoro	v-Smirnov Test Statistic	0.283	95% Percentile Bootstrap UCL	7.4878E-
Kolmogorov-Sn	nirnov 5% Critical Value	0.221	95% BCA Bootstrap UCL	9.6719E-
Data not Gamma Distribute	ed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL	0.00
			97.5% Chebyshev(Mean, Sd) UCL	0.00
Assuming Gan	nma Distribution		99% Chebyshev(Mean, Sd) UCL	0.002
	proximate Gamma UCL	i i		
95%	Adjusted Gamma UCL	7.1630E-4		

Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.0
ult or 1/2 SDL (1,2diphenylhydrazine/azobenzen)			
	General Stat	istics	
Number of Valid Samples	16	Number of Unique Samples	13
Raw Statistics	***************************************	Log-transformed Statistics	
Minimum	0.0050	Minimum of Log Data	-5.28
Maximum	0.0317	Maximum of Log Data	-3.45
Mean	0.0073	Mean of log Data	-5.05
Median	0.0054	SD of log Data	0.4
SD	0.0065		
Coefficient of Variation	0.883		,
Skewness	3.903		***************************************
Normal Distribution Test	Relevant UCL S	Lognormal Distribution Test	e-1476/44/1-144/7-1/1-1/1-1/1-1
Shapiro Wilk Test Statistic	0.369	Shapiro Wilk Test Statistic	0.5
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.8
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0103	95% H-UCL	0.0
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0
95% Adjusted-CLT UCL	0.0118	97.5% Chebyshev (MVUE) UCL	0.0
95% Modified-t UCL	0.0105	99% Chebyshev (MVUE) UCL	0.0
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	2.896	Data do not follow a Discernable Distribution (0.05	ij)
Theta Star	0.0025		***************************************
nu star	92.68		444004-54405-44
Approximate Chi Square Value (.05)	71.48	Nonparametric Statistics	-1
Adjusted Level of Significance	0.0335	95% CLT UCL	0.0
Adjusted Chi Square Value	69.36	95% Jackknife UCL	0.0
		95% Standard Bootstrap UCL	0.0
Anderson-Darling Test Statistic	3.453	95% Bootstrap-t UCL	0.0
Anderson-Darling 5% Critical Value	0.743	95% Hall's Bootstrap UCL	0.0
Kolmogorov-Smirnov Test Statistic	0.376	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 7% Critical Value	0.216	95% BCA Bootstrap UCL	0.0
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.0
Total Total Total Distributed at 0.8 Significance Le		97.5% Chebyshev(Mean, Sd) UCL	0.0
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0
95% Approximate Gamma UCL	0.0095	33 /0 Onedystics (Ivicall, Su) UCL	J.U
95% Adjusted Gamma UCL	0.0095		
Potential UCL to Use		Use 95% Student's-t UCL	0.0
		or 95% Modified-t UCL	0.0

Result or 1/2 SDL (2-methylnaphthalene)

	General S	tatistics	
Number of Valid Samples	16	Number of Unique Samples	14
Raw Statistics		Log-transformed Statistics	,,
Minimum	0.0066	Minimum of Log Data	-5.021
Maximum	0.0188	Maximum of Log Data	-3.974
Mean	0.0083	Mean of log Data	-4.828
Median	0.0073	SD of log Data	0.26
SD	0.0029		
Coefficient of Variation	0.357		PENNAPHTRIJENDS
Skewness	3.264		
	Relevant UCI	_ Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.566	Shapiro Wilk Test Statistic	0.69
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	88.0
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0096	95% H-UCL	0.00
95% UCLs (Adjusted for Skewness)	0.0090	95% Chebyshev (MVUE) UCL	0.01
95% Adjusted-CLT UCL	0.0102	97.5% Chebyshev (MVUE) UCL	0.01
95% Modified-t UCL	0.0097	99% Chebyshev (MVUE) UCL	0.0
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	10.55	Data do not follow a Discernable Distribution (0.05	i)
Theta Star			
nu star	337.5		
Approximate Chi Square Value (.05)	295.9	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	0.00
Adjusted Chi Square Value	291.5	95% Jackknife UCL	0.00
		95% Standard Bootstrap UCL	0.00
Anderson-Darling Test Statistic	1.783	95% Bootstrap-t UCL	0.0
Anderson-Darling 5% Critical Value	0.738	95% Hall's Bootstrap UCL	0.01
Kolmogorov-Smirnov Test Statistic	0.24	95% Percentile Bootstrap UCL	0.00
Kolmogorov-Smirnov 5% Critical Value	0.215	95% BCA Bootstrap UCL	0.01
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.01
		97.5% Chebyshev(Mean, Sd) UCL	0.01
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.01
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.0094 0.0096		
Potential UCL to Use		Use 95% Student's-t UCL	0.00
	And the state of t	or 95% Modified-t UCL	0.00
ult or 1/2 SDL (3,3'-dichlorobenzidine)			

Raw Statistics		Log-transformed Statistics	
Minimum	0.0293		-3.53
Maximum	0.151	Maximum of Log Data	-1.89
Mean	0.0408		-3.312
Median	0.0316		0.4
SD	0.0297	OP OF TOP Date	
Coefficient of Variation	0.729		
Skewness	3.845		
	Relevant UC	CL Statistics	
Normal Distribution Test	***************************************	Lognormal Distribution Test	Production and American Spinishers of the Spinis
Shapiro Wilk Test Statistic	0.396	Shapiro Wilk Test Statistic	0.541
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.887
Data not Normal at 5% Significance Level	C'anni da antico de Calabara da Antico de Calabara de Calabara de Calabara de Calabara de Calabara de Calabara	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	· · · · · · · · · · · · · · · · · · ·	Assuming Lognormal Distribution	de, s wedfrengang för så farr bes uvi föd sedere
95% Student's-t UCL	0.0538	95% H-UCL	0.048
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.056
95% Adjusted-CLT UCL	0.0607	97.5% Chebyshev (MVUE) UCL	0.064
95% Modified-t UCL	0.055	99% Chebyshev (MVUE) UCL	0.079
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	3.785	Data do not follow a Discernable Distribution (0.0	=\
Theta Star	0.0108	Data do flot follow a Discernable Distribution (0.0	
nu star	121.1		-{}
Approximate Chi Square Value (.05)	96.71	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	0.053
Adjusted Chi Square Value	94.23	95% Jackknife UCL	0.053
		95% Standard Bootstrap UCL	0.052
Anderson-Darling Test Statistic	3.16	95% Bootstrap-t UCL	0.108
Anderson-Darling 5% Critical Value	0.742	95% Hall's Bootstrap UCL	0.097
Kolmogorov-Smirnov Test Statistic	0.345	95% Percentile Bootstrap UCL	0.055
Kolmogorov-Smirnov 5% Critical Value	0.216	95% BCA Bootstrap UCL	0.062
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.073
		97.5% Chebyshev(Mean, Sd) UCL	0.087
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.115
95% Approximate Gamma UCL	0.0511		
95% Adjusted Gamma UCL	0.0524		***************************************
Potential UCL to Use		Use 95% Student's-t UCL	0.053
		or 95% Modified-t UCL	0.055
95% Adjusted Gamma UCL Potential UCL to Use	0.0524		
Number of Valid Samples	General S	Statistics Number of Unique Samples	15
Number of Valid Samples		Numbel of Offique Samples	13
Raw Statistics		Log-transformed Statistics	
Minimum		Minimum of Log Data	-9.333
Maximum	0.0033	Maximum of Log Data	-5.708
Mean 4	1.1103E-4	Mean of log Data	-8.608

			YSTAT-IFI
Median	1.0250E-4	SD of log Data	1.086
SD	7.9620E-4		
Coefficient of Variation	1.937		
Skewness	3.45		Language and a control of the state of the s
	J		***************************************
Normal Distribution Test	Relevant UC	CL Statistics Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.467	Shapiro Wilk Test Statistic	0.714
Shapiro Wilk Critical Value		Shapiro Wilk Critical Value	0.892
Data not Normal at 5% Significance Level	0,092	Data not Lognormal at 5% Significance Level	0.032
Assuming Normal Distribution	17 4047E 4	Assuming Lognormal Distribution	7.07015
95% Student's-t UCL	/.481/E-4	95% H-UCL	
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	
95% Adjusted-CLT UCL	1	97.5% Chebyshev (MVUE) UCL	
95% Modified-t UCL	7.7510E-4	99% Chebyshev (MVUE) UCL	0.001
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.648	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	6.3401E-4		
nu star	22.04		
Approximate Chi Square Value (.05)	12.37	Nonparametric Statistics	
Adjusted Level of Significance	0.0346	95% CLT UCL	7.2866E-4
Adjusted Chi Square Value	11.61	95% Jackknife UCL	7.4817E-4
		95% Standard Bootstrap UCL	7.1836E-4
Anderson-Darling Test Statistic	2.621	95% Bootstrap-t UCL	0.001
Anderson-Darling 5% Critical Value	0.777	95% Hall's Bootstrap UCL	0.001
Kolmogorov-Smirnov Test Statistic	0.375	95% Percentile Bootstrap UCL	7.5694E-4
Kolmogorov-Smirnov 5% Critical Value	0.217	95% BCA Bootstrap UCL	9.4576E-4
Data not Gamma Distributed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL	0.001
		97.5% Chebyshev(Mean, Sd) UCL	0.001
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.002
95% Approximate Gamma UCL	7.3242E-4		**************************************
95% Adjusted Gamma UCL	7.8005E-4		(1886) - 1 km,
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.002
Result or 1/2 SDL (4,6-dinitro-2-methylphenol)			
1	0	Data Va	
Number of Valid Samples	General S	Statistics Number of Unique Samples	15
Raw Statistics		Log-transformed Statistics	Later and a second seco
Minimum	0.0123	Minimum of Log Data	-4.402
Maximum	0.0627	Maximum of Log Data	-2.769
Mean	0.017	Mean of log Data	-4.186
Median	0.017	SD of log Data	0.399
SD	0.0132	or or reg para	
Coefficient of Variation	0.725		
Skewness	3.843		

	1-07-54/2000 (4: 0. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		
	Relevant UC		
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic		Shapiro Wilk Test Statistic	0.542
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.887
Data not Normal at 5% Significance Level	1.00mm 1.00mm 1.00mm 1.00mm 1.00mm 1.00mm 1.00mm 1.00mm 1.00mm 1.00mm 1.00mm 1.00mm 1.00mm 1.00mm 1.00mm 1.00m	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0224	95% H-UCL	0,020
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.023
95% Adjusted-CLT UCL	0.0252	97.5% Chebyshev (MVUE) UCL	0.026
95% Modified-t UCL	0.0229	99% Chebyshev (MVUE) UCL	0.033
Gamma Distribution Test		Data Distribution	***************************************
k star (bias corrected)	3.812	Data do not follow a Discernable Distribution (0.05	i)
Theta Star	0.0044		
nu star	122	,	-Horning and an income in the
Approximate Chi Square Value (.05)	97.49	Nonparametric Statistics	nomewnellstestestes
Adjusted Level of Significance	0.0335	95% CLT UCL	0.022
Adjusted Chi Square Value	95	95% Jackknife UCL	0.022
Adjusted of oquate value		95% Standard Bootstrap UCL	0.022
Anderson-Darling Test Statistic	3.154	95% Bootstrap-t UCL	0.044
Anderson-Darling 5% Critical Value	0.742	95% Hall's Bootstrap UCL	0.040
Kolmogorov-Smirnov Test Statistic	0.742	95% Percentile Bootstrap UCL	0.040
_		-	0.023
Kolmogorov-Smirnov 5% Critical Value	0.216	95% BCA Bootstrap UCL	
Data not Gamma Distributed at 5% Significance L	evei	95% Chebyshev(Mean, Sd) UCL	0.030
		97.5% Chebyshev(Mean, Sd) UCL	0.036
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.047
95% Approximate Gamma UCL	0.0213		
95% Adjusted Gamma UCL	0.0218		
Potential UCL to Use		Use 95% Student's-t UCL	0.022
	***************************************	or 95% Modified-t UCL	0.022
esult or 1/2 SDL (acenaphthene)			
	General S	Statistics	
Number of Valid Samples	16	Number of Unique Samples	14
Raw Statistics		Log-transformed Statistics	terapy transfer referring ministra
Minimum	0.0061	Minimum of Log Data	-5.099
Maximum	0.0631	Maximum of Log Data	-2.763
Mean	0.0031	Mean of log Data	-4.757
Median	0.0110	SD of log Data	0.628
SD.	0.0067	OD 01 10g Data	0.020
Coefficient of Variation	1.248		·
Skewness	3.498		
	Relevant UC	N. Statistics	
	nelevant UC		
Normal Distribution Test	0.400	Lognormal Distribution Test	A F0
Shapiro Wilk Test Statistic		Shapiro Wilk Test Statistic	0.58
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.887

	1 3 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	The state of the s	المستنب والمستحدد المتعدد
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	······································
95% Student's-t UCL	0.0179	95% H-UCL	0.014
95% UCLs (Adjusted for Skewness)	0.0179	95% Chebyshev (MVUE) UCL	0.01
95% Adjusted-CLT UCL	0.0208	97.5% Chebyshev (MVUE) UCL	0.020
95% Modified-t UCL	0.0208	99% Chebyshev (MVUE) UCL	0.02
33% Woulineuri OCL	0.0164	33 % Chebyshev (MVOL) OCL	0.02
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.535	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.0075		. 11.11.01001111.0111.1011111
nu star	49.11		
Approximate Chi Square Value (.05)	34.02	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	0.01
Adjusted Chi Square Value	32.6	95% Jackknife UCL	0.01
THE PROPERTY OF THE PROPERTY O		95% Standard Bootstrap UCL	0.01
Anderson-Darling Test Statistic	3.332	95% Bootstrap-t UCL	0.08
Anderson-Darling 5% Critical Value	0.752	95% Hall's Bootstrap UCL	0.04
Kolmogorov-Smirnov Test Statistic	0.415	95% Percentile Bootstrap UCL	0.01
Kolmogorov-Smirnov 5% Critical Value	0.218	95% BCA Bootstrap UCL	0.02
Data not Gamma Distributed at 5% Significance L		95% Chebyshev(Mean, Sd) UCL	0.02
		97.5% Chebyshev(Mean, Sd) UCL	0.034
Assuming Gamma Distribution	L	99% Chebyshev(Mean, Sd) UCL	0.04
95% Approximate Gamma UCL	0.0167	3370 CiteBySileV(Wealif, Gd) CGE	0.01
95% Adjusted Gamma UCL	0.0107		
93 % Adjusted Gamma OCL	0.0174		linksjormfokrethfokretemist
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.027
esult or 1/2 SDL (aluminum)			
		and the second s	
	General Sta	atistics	
Number of Valid Samples	General Sta	ntistics Number of Unique Samples	16
Number of Valid Samples Raw Statistics		Number of Unique Samples	16
			16
Raw Statistics Minimum	16	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	8.269
Raw Statistics Minimum Maximum	3900 12500	Log-transformed Statistics Minimum of Log Data Maximum of Log Data	8.269 9.433
Raw Statistics Minimum Maximum Mean	3900 12500 6854	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	8.269 9.433 8.78
Raw Statistics Minimum Maximum Mean Median	3900 12500 6854 6345	Log-transformed Statistics Minimum of Log Data Maximum of Log Data	8.269 9.433
Raw Statistics Minimum Maximum Mean Median SD	3900 12500 6854 6345 2346	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	8.26 9.43 8.78
Raw Statistics Minimum Maximum Mean Median	3900 12500 6854 6345	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	8.26 9.43 8.78
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	3900 12500 6854 6345 2346 0.342 0.876	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	8.26 9.43 8.78
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	3900 12500 6854 6345 2346 0.342	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	8.26 9.43 8.78
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test	3900 12500 6854 6345 2346 0.342 0.876	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test	8.26 9.43 8.78 0.33
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic	3900 12500 6854 6345 2346 0.342 0.876	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic	8.26 9.43 8.78 0.33
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	3900 12500 6854 6345 2346 0.342 0.876 Relevant UCL \$	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	8.26 9.43 8.78 0.33
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic	3900 12500 6854 6345 2346 0.342 0.876 Relevant UCL \$	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic	8.26 9.43 8.78 0.33
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	3900 12500 6854 6345 2346 0.342 0.876 Relevant UCL \$	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	8.26 9.43 8.78 0.33
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level	3900 12500 6854 6345 2346 0.342 0.876 Relevant UCL \$	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution	8.26 9.43 8.78

			1. Hall 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
95% Adjusted-CLT UCL	7956	97.5% Chebyshev (MVUE) UCL	10434
95% Modified-t UCL	7904	99% Chebyshev (MVUE) UCL	12562
Gamma Distribution Test		Data Distribution	1931-134 <u>11</u> 141-1441-1441-1441-1441-1441-1441-1
k star (bias corrected)	7.977	Data appear Normal at 5% Significance Level	
Theta Star	859 <i>.</i> 3		
nu star	255.3		
Approximate Chi Square Value (.05)	219.3	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	7819
Adjusted Chi Square Value	215.5	95% Jackknife UCL	7882
		95% Standard Bootstrap UCL	7774
Anderson-Darling Test Statistic	0.237	95% Bootstrap-t UCL	8066
Anderson-Darling 5% Critical Value	0.739	95% Hall's Bootstrap UCL	8093
Kolmogorov-Smirnov Test Statistic	0.116	95% Percentile Bootstrap UCL	7798
Kolmogorov-Smirnov 5% Critical Value	0,215	95% BCA Bootstrap UCL	7883
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	9411
		97.5% Chebyshev(Mean, Sd) UCL	10517
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	12689
95% Approximate Gamma UCL	7980		
95% Adjusted Gamma UCL	8120		
Potential UCL to Use		Use 95% Student's-t UCL	7882
sult or 1/2 SDL (anthracene)	General S	Statistics	
sult or 1/2 SDL (anthracene) Number of Valid Samples	General S	Statistics Number of Unique Samples	15
		Number of Unique Samples	15
Number of Valid Samples Raw Statistics			
Number of Valid Samples Raw Statistics Minimum	0.0067	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	-5.006
Number of Valid Samples Raw Statistics	0.0067 0.0753	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-5.006 -2.586
Number of Valid Samples Raw Statistics Minimum Maximum	0.0067 0.0753 0.0201	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.006 -2.586 -4.283
Number of Valid Samples Raw Statistics Minimum Maximum Mean	0.0067 0.0753	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-5.006 -2.586 -4.283
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	0.0067 0.0753 0.0201 0.0089	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.006 -2.586 -4.283
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	0.0067 0.0753 0.0201 0.0089 0.0205	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.006 -2.586 -4.283
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0067 0.0753 0.0201 0.0089 0.0205 1.017 1.776	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.006 -2.586 -4.283
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0067 0.0753 0.0201 0.0089 0.0205 1.017 1.776	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-5.006 -2.586 -4.283 0.83
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0067 0.0753 0.0201 0.0089 0.0205 1.017 1.776	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-5.006 -2.586 -4.283
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0067 0.0753 0.0201 0.0089 0.0205 1.017 1.776	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test	-5.006 -2.586 -4.283 0.83
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic	0.0067 0.0753 0.0201 0.0089 0.0205 1.017 1.776 Relevant UC	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic	-5.006 -2.586 -4.283 0.83
Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	0.0067 0.0753 0.0201 0.0089 0.0205 1.017 1.776 Relevant UC	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data	-5.006 -2.586 -4.283 0.83
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.0067 0.0753 0.0201 0.0089 0.0205 1.017 1.776 Relevant UC	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data CL Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	-5.006 -2.586 -4.283 0.83 0.80 0.80
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	0.0067 0.0753 0.0201 0.0089 0.0205 1.017 1.776 Relevant UC	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-5.006 -2.586 -4.283 0.83 0.80 0.80
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.0067 0.0753 0.0201 0.0089 0.0205 1.017 1.776 Relevant UC	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-5.006 -2.586 -4.283 0.83 0.80 0.80 0.03
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	0.0067 0.0753 0.0201 0.0089 0.0205 1.017 1.776 Relevant UC	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-5.006 -2.586 -4.283 0.83 0.80 0.80 0.03 0.03
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.0067 0.0753 0.0201 0.0089 0.0205 1.017 1.776 Relevant UC 0.711 0.887	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-5.006 -2.586 -4.283 0.83

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Theta Star	0.0162		
nu star	39.69		
Approximate Chi Square Value (.05)	26.26	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	0.028
Adjusted Chi Square Value	25.02	95% Jackknife UCL	0.029
		95% Standard Bootstrap UCL	0.028
Anderson-Darling Test Statistic	1.546	95% Bootstrap-t UCL	0.036
Anderson-Darling 5% Critical Value	0.755	95% Hall's Bootstrap UCL	0.033
Kolmogorov-Smirnov Test Statistic	0.323	95% Percentile Bootstrap UCL	0.028
Kolmogorov-Smirnov 5% Critical Value	0.219	95% BCA Bootstrap UCL	0.03
Data not Gamma Distributed at 5% Significance Lo	evel	95% Chebyshev(Mean, Sd) UCL	0.042
		97.5% Chebyshev(Mean, Sd) UCL	0.052
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.07
95% Approximate Gamma UCL	0.0304		
95% Adjusted Gamma UCL	0.0319		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.042
sult or 1/2 SDL (antimony)			
	General S	tatistics	MENTAL PROPERTY AND A STATE OF THE STATE OF
Number of Valid Samples	16	Number of Unique Samples	16
Raw Statistics		Log-transformed Statistics	
Minimum	0.74	Minimum of Log Data	-0.301
Maximum	8.14	Maximum of Log Data	2.09
Mean	2.245	Mean of log Data	0.62
Median	1.75	SD of log Data	0.57
SD	1.751		
Coefficient of Variation	0.78		
Skewness	2.813		
The state of the s	Relevant UCI	L Statistics	www.w.w.
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.675	Shapiro Wilk Test Statistic	0.93
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.88
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	***************************************
95% Student's-t UCL	3.012	95% H-UCL	3.02
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	3.59
95% Adjusted-CLT UCL	3.294	97.5% Chebyshev (MVUE) UCL	4.20
95% Modified-t UCL	3.064	99% Chebyshev (MVUE) UCL	5.39
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	2.429	Data appear Gamma Distributed at 5% Significance L	.evel
Theta Star	0.924		
nu star	77.73		***************************************
Approximate Chi Square Value (.05)	58.42	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	2.96
Adjusted Chi Square Value	56.52	95% Jackknife UCL	3.012

	In upo majora potto	 	Take goldgericetik
		95% Standard Bootstrap UCL	2.935
Anderson-Darling Test Statistic	0.73	95% Standard Bootstrap UCL	3.9
Anderson-Darling 19st Statistic	į	95% Hall's Bootstrap UCL	5.856
Kolmogorov-Smirnov Test Statistic	į.	· · · · · · · · · · · · · · · · · · ·	
	}	95% Percentile Bootstrap UCL	3.061
Kolmogorov-Smirnov 5% Critical Value		95% BCA Bootstrap UCL	3.384
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	4.153
		97.5% Chebyshev(Mean, Sd) UCL	4.979
Assuming Gamma Distribution	·	99% Chebyshev(Mean, Sd) UCL	6.601
95% Approximate Gamma UCL	ļ		The second secon
95% Adjusted Gamma UCL	3.088		
Potential UCL to Use		Use 95% Approximate Gamma UCL	2.987
Result or 1/2 SDL (arsenic)			
		Statistics	
Number of Valid Samples	16	Number of Unique Samples	16
Raw Statistics		Log-transformed Statistics	rangu sagaran manaran dan me
Minimum	2.41	Minimum of Log Data	0.88
Maximum	7.62	Maximum of Log Data	2.031
Mean	4.026	Mean of log Data	1.341
Median	3.805	SD of log Data	0.327
. SD	1.4		
Coefficient of Variation	0.348		910-11-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
Skewness	1.175		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Dolovent IV	CL Statistics	halaman kalangan kalangan kalangan persangan persangan persangan persangan persangan persangan persangan persa
and the second s	Relevant Ut	Lognormal Distribution Test	
Normal Distribution Test	0.002		0.957
Shapiro Wilk Test Statistic	[Shapiro Wilk Test Statistic	
Shapiro Wilk Critical Value		Shapiro Wilk Critical Value	0.887
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	4.64	95% H-UCL	4.732
95% UCLs (Adjusted for Skewness)	L	95% Chebyshev (MVUE) UCL	5.471
95% Adjusted-CLT UCL	4.712	97.5% Chebyshev (MVUE) UCL	6.099
95% Modified-t UCL	4.657	99% Chebyshev (MVUE) UCL	7.332
Gamma Distribution Test		Data Distribution	·
k star (bias corrected)	8.049	Data appear Normal at 5% Significance Level	ad question and the Period Control of the Section of
Theta Star	0.5		24 hr 1 had all and 1 MAT AND A SHOWN HIT 1947
nu star	257.6		
Approximate Chi Square Value (.05)	237.6	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	4.602
Adjusted Level of Significance Adjusted Chi Square Value	217.6	95% Jackknife UCL	4.602
Aujusted Cni Square Value	Z1/.0		4.54
Andones Dade Trates of the	0010	95% Standard Bootstrap UCL	
Anderson-Darling Test Statistic	0.318	95% Bootstrap-t UCL	4.811
Anderson-Darling 5% Critical Value	0.739	95% Hall's Bootstrap UCL	4.939
Kolmogorov-Smirnov Test Statistic	0.15	95% Percentile Bootstrap UCL	4.618
Kolmogorov-Smirnov 5% Critical Value	0.215	95% BCA Bootstrap UCL	4.696

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Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	5,552
		97.5% Chebyshev(Mean, Sd) UCL	6.21
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	7.50
95% Approximate Gamma UCL	4.684	Construction of the control of the c	7.00
95% Adjusted Gamma UCL	4.766		
30 % Adjusted Gailling OCL	4.700		
Potential UCL to Use		Use 95% Student's-t UCL	4.64
Result or 1/2 SDL (atrazine (aatrex))			
	General S	Statistics	
Number of Valid Samples	16	Number of Unique Samples	15
Raw Statistics		Log-transformed Statistics	
Minimum	0.012	Minimum of Log Data	-4.423
Maximum	0.0814	Maximum of Log Data	-2.508
Mean	0.0179	Mean of log Data	-4.189
Median	0.0129	SD of log Data	0.46
SD	0.017		
Coefficient of Variation	0.951		·** 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Skewness	3.921		Mark Market and Special Specia
F	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.359	Shapiro Wilk Test Statistic	0.50
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.88
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	, et a bathar no men burne serve sta
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0254	95% H-UCL	0.02
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.02
95% Adjusted-CLT UCL	0.0294	97.5% Chebyshev (MVUE) UCL	0.02
95% Modified-t UCL	0.0261	99% Chebyshev (MVUE) UCL	0.03
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	2.613	Data do not follow a Discernable Distribution (0.05	ō)
Theta Star	0.0068		
nu star	83.62		,
Approximate Chi Square Value (.05)	63.55	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	0.02
Adjusted Chi Square Value	61.56	95% Jackknife UCL	0.02
		95% Standard Bootstrap UCL	0.02
Anderson-Darling Test Statistic	3.587	95% Bootstrap-t UCL	0.06
Anderson-Darling 5% Critical Value	0.744	95% Hall's Bootstrap UCL	0.05
Kolmogorov-Smirnov Test Statistic	0.387	95% Percentile Bootstrap UCL	0.02
Kolmogorov-Smirnov 5% Critical Value	0.217	95% BCA Bootstrap UCL	0.03
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.03
		97.5% Chebyshev(Mean, Sd) UCL	0.04
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.06
95% Approximate Gamma UCL	0.0236	,,,,	
95% Adjusted Gamma UCL	0.0243		
2077, ajaotoa Gamma OOL	0.02.70		

Potential UCL to Use	<u> </u>	Use 95% Student's-t UCL	0.025
		or 95% Modified-t UCL	0.026
uit or 1/2 SDL (barium)			
	General S	tatistics	
Number of Valid Samples	16	Number of Unique Samples	14
Raw Statistics		Log-transformed Statistics	
Minimum	116	Minimum of Log Data	4.75
Maximum	377	Maximum of Log Data	5.93
Mean	215.3	Mean of log Data	5.33
Median	198	SD of log Data	0.26
SD	59.65		
Coefficient of Variation	0.277		·/n
Skewness	1.296		636-69-69-69-69-69-69-69-69-69-69-69-69-69
			-(6
F	Relevant UCI		
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.887	Shapiro Wilk Test Statistic	0.93
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.88
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	1
Assuming Normal Distribution		Assuming Lognormal Distribution	anni anni anni anni anni anni anni anni
95% Student's-t UCL	241.4	95% H-UCL	244.4
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	277.3
95% Adjusted-CLT UCL	244.9	97.5% Chebyshev (MVUE) UCL	304.2
95% Modified-t UCL	242.2	99% Chebyshev (MVUE) UCL	357.1
Gamma Distribution Test	o constant of the constant of	Data Distribution	n system system of the description
k star (bias corrected)	12.47	Data appear Gamma Distributed at 5% Significance	Level
Theta Star	17.27		
nu star	398.9		
Approximate Chi Square Value (.05)	353.6	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	239.8
Adjusted Chi Square Value	348.8	95% Jackknife UCL	241.4
		95% Standard Bootstrap UCL	239.4
Anderson-Darling Test Statistic	0.562	95% Bootstrap-t UCL	250.3
Anderson-Darling 5% Critical Value	0.738	95% Hall's Bootstrap UCL	261.9
Kolmogorov-Smirnov Test Statistic	0.17	95% Percentile Bootstrap UCL	240
Kolmogorov-Smirnov 5% Critical Value	0.215	95% BCA Bootstrap UCL	244.2
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	280.3
		97.5% Chebyshev(Mean, Sd) UCL	308.4
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	363.6
	242.8		
95% Approximate Gamma UCL	······		
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	246.2		

Maximum 0.395 Maximum Mean 0.0454 Mea Median 0.0069 SI SD 0.103 Coefficient of Variation 2.258 Skewness 3.108 Relevant UCL Statistics Normal Distribution Test Lognormal Distribution Test Shapiro Wilk Test Statistic 0.454 Shapiro Wilk Shapiro Wilk Shapiro Wilk Centrical Value 0.887 Shapiro Wilk Centrical Value Data not Normal at 5% Significance Level Data not Lognormal at 5% Significance Level Data not Lognormal Distribution	tics n of Log Data n of Log Data n of log Data D of log Data Test Test Statistic Critical Value	-5.075 -0.929 -4.365 1.321
Raw Statistics Log-transformed Statist Minimum 0.0062 Minimum Maximum 0.395 Maximum Mean 0.0454 Mea Median 0.0069 Statistics SD 0.103 Coefficient of Variation 2.258 Skewness 3.108 Shapiro Wilk Test Statistic 0.454 Shapiro Wilk Test Statistic 0.454 Shapiro Wilk Test Statistic Shapiro Wilk Citical Value 0.887 Shapiro Wilk Citical Value Data not Normal at 5% Significance Level Data not Lognormal at 5% Significance Level Data not Lognormal Distribution Assuming Normal Distribution 95% Student's-t UCL 0.0904 95% UCLs (Adjusted for Skewness) 95% Chebyshev (95% Adjusted-CLT UCL 0.109 97.5% Chebyshev (95% Adjusted-CLT UCL	tics n of Log Data n of Log Data n of log Data D of log Data Test Test Statistic Critical Value	-5.075 -0.929 -4.365 1.321
Minimum 0.0062 Minimum Maximum 0.395 Maximum Mean 0.0454 Mea Median 0.0069 SI SD 0.103 SI Coefficient of Variation 2.258 Skewness 3.108 Relevant UCL Statistics Normal Distribution Test Lognormal Distribution Test Shapiro Wilk Test Statistic 0.454 Shapiro Wilk Test Shapiro Wilk Chitical Value Shapiro Wilk Critical Value 0.887 Shapiro Wilk Chitical Value Data not Normal at 5% Significance Level Data not Lognormal at 5% Significance Level Assuming Normal Distribution Assuming Lognormal Distribution 95% Student's-t UCL 0.0904 95% UCLs (Adjusted for Skewness) 95% Chebyshev (95% Adjusted-CLT UCL 0.109 97.5% Chebyshev (n of Log Data n of Log Data n of log Data D of log Data Fest Test Statistic Critical Value	-0.929 -4.365 1.32
Minimum 0.0062 Minimum Maximum 0.395 Maximum Mean 0.0454 Mea Median 0.0069 SI SD 0.103 SI Coefficient of Variation 2.258 Skewness 3.108 Relevant UCL Statistics Normal Distribution Test Lognormal Distribution Test Shapiro Wilk Test Statistic 0.454 Shapiro Wilk Test Shapiro Wilk Central Value Shapiro Wilk Critical Value 0.887 Shapiro Wilk Central Value Data not Normal at 5% Significance Level Data not Lognormal at 5% Significance Level Assuming Normal Distribution Assuming Lognormal Distribution 95% Student's-t UCL 0.0904 95% UCLs (Adjusted for Skewness) 95% Chebyshev (95% Chebyshev)	n of Log Data n of Log Data n of log Data D of log Data Fest Test Statistic Critical Value	-0.929 -4.365 1.321
Mean 0.0454 Mean Median 0.0069 SI SD 0.103 Coefficient of Variation 2.258 Skewness 3.108 Relevant UCL Statistics Normal Distribution Test Lognormal Distribution Test Shapiro Wilk Test Statistic 0.454 Shapiro Wilk Cest Shapiro Wilk Cested Tested Shapiro Wilk Critical Value 0.887 Shapiro Wilk Cested Tested Te	on of log Data D of log Data Fest Test Statistic Critical Value	-4.365 1.321 0.591
Median 0.0069 SI SD 0.103 Coefficient of Variation 2.258 Skewness 3.108 Relevant UCL Statistics Normal Distribution Test Lognormal Distribution T Shapiro Wilk Test Statistic 0.454 Shapiro Wilk Critical Value 0.887 Data not Normal at 5% Significance Level Data not Lognormal at 5% Significance Level Data not Lognormal Distribution Assuming Normal Distribution Assuming Lognormal Distribution 95% Student's-t UCL 0.0904 95% UCLs (Adjusted for Skewness) 95% Chebyshev (95% Adjusted-CLT UCL 0.109 97.5% Chebyshev (D of log Data Fest Test Statistic Critical Value	0.591
Coefficient of Variation 2.258 Skewness 3.108 Relevant UCL Statistics Normal Distribution Test Lognormal Distribution Test Shapiro Wilk Test Statistic 0.454 Shapiro Wilk Shapiro Wilk Critical Value 0.887 Shapiro Wilk Onata not Normal at 5% Significance Level Data not Lognormal at 5% Significance Level Data not Lognormal Distribution Assuming Normal Distribution Assuming Lognormal Distribution 95% Student's-t UCL 0.0904 95% UCLs (Adjusted for Skewness) 95% Chebyshev (95% Adjusted-CLT UCL 0.109 97.5% Chebyshev (Fest Test Statistic Critical Value	0.591
Coefficient of Variation 2.258 Skewness 3.108 Relevant UCL Statistics Normal Distribution Test Lognormal Distribution Test Shapiro Wilk Test Statistic 0.454 Shapiro Wilk Test Statistic 0.887 Shapiro Wilk Test Statistic Data not Lognormal at 5% Significance Level Data not Lognormal at 5% Significance Level Data not Lognormal Distriction 95% Student's-t UCL 0.0904 95% UCLs (Adjusted for Skewness) 95% Chebyshev (95% Adjusted-CLT UCL 0.109 97.5% Chebyshe	Test Statistic Critical Value	
Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic O.454 Shapiro Wilk Critical Value O.887 Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Data not Lognormal at 5% Significance Level Assuming Normal Distribution Assuming Lognormal Distri 95% Student's-t UCL O.0904 95% UCLs (Adjusted for Skewness) 95% Chebyshev (Test Statistic Critical Value	
Relevant UCL Statistics Normal Distribution Test Lognormal Distribution T Shapiro Wilk Test Statistic 0.454 Shapiro Wilk C Shapiro Wilk Critical Value 0.887 Shapiro Wilk C Data not Normal at 5% Significance Level Data not Lognormal at 5% Significance Level Data not Lognormal Distribution Assuming Normal Distribution Assuming Lognormal Distribution 95% Student's-t UCL 0.0904 95% UCLs (Adjusted for Skewness) 95% Chebyshev (95% Adjusted-CLT UCL 0.109 97.5% Chebyshev (Test Statistic Critical Value	
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value O.887 Data not Normal at 5% Significance Level Data not Lognormal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Chebyshev (95% Adjusted-CLT UCL O.109	Test Statistic Critical Value	
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value O.887 Data not Normal at 5% Significance Level Data not Lognormal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Chebyshev (95% Adjusted-CLT UCL 0.109 Lognormal Distribution Assuming Lognormal Distribution 95% Chebyshev (Test Statistic Critical Value	
Shapiro Wilk Test Statistic 0.454 Shapiro Wilk Chapiro Wi	Test Statistic Critical Value	
Shapiro Wilk Critical Value 0.887 Shapiro Wilk C Data not Normal at 5% Significance Level Data not Lognormal Distribution P5% Student's-t UCL D.0.0904 P5% UCLs (Adjusted for Skewness) P5% Chebyshev (D.0.0904 D.0.0904 P5% Adjusted-CLT UCL D.0.0904 P5% Adjusted-CLT UCL D.0.0904 P5% Chebyshev (D.0.0904 D.0.0904 P5% Adjusted-CLT UCL D.0.0904 P5% Chebyshev (D.0.0904 D.0.0904 P5% Adjusted-CLT UCL D.0.0904 P5% Chebyshev (D.0.0904 D.0.0904 P5% Adjusted-CLT UCL D.0.0904 P5% Chebyshev (D.0.0904 D.0.0904 D.0.0904 P5% Chebyshev (D.0.0904 D.0.0904 D	Critical Value	
Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 0.109 Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% Chebyshev (0.887
Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Adjusted-CLT UCL 95% Chebyshev (0.007
95% Student's-t UCL 0.0904 95% UCLs (Adjusted for Skewness) 95% Chebyshev (95% Adjusted-CLT UCL 0.109 97.5% Chebyshev (
95% UCLs (Adjusted for Skewness) 95% Chebyshev (95% Adjusted-CLT UCL 0.109 97.5% Chebyshev (ibution	
95% Adjusted-CLT UCL 0.109 97.5% Chebyshev (95% H-UCL	0.092
	(MVUE) UCL	0.073
95% Modified-t UCL 0.0937 99% Chebyshev ((MVUE) UCL	0.093
•	MVUE) UCL	0.132
Gamma Distribution Test Data Distribution	#*************************************	
k star (bias corrected) 0.447 Data do not follow a Discernable Dis	stribution (0.05	5)
Theta Star 0.102		~
nu star 14.31	Arministra sum seriem Arministra stransfer	
Approximate Chi Square Value (.05) 6.785 Nonparametric Statistic	CS	***************************************
	5% CLT UCL	0.087
	ckknife UCL	0.090
95% Standard Bo	ootstrap UCL	0.086
	otstrap-t UCL	0.28
Anderson-Darling 5% Critical Value 0.797 95% Hall's Bo	ootstrap UCL	0.328
Kolmogorov-Smirnov Test Statistic 0.468 95% Percentile Bo	ootstrap UCL	0.090
Kolmogorov-Smirnov 5% Critical Value 0.227 95% BCA Bo	ootstrap UCL	0.118
Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Me	an, Sd) UCL	0.157
97.5% Chebyshev(Me	an, Sd) UCL	0.206
Assuming Gamma Distribution 99% Chebyshev(Me	an, Sd) UCL	0.301
95% Approximate Gamma UCL 0.0958		
95% Adjusted Gamma UCL 0.105		
Potential UCL to Use Use 99% Chebyshev (Me	an, Sd) UCL	0.301
sult or 1/2 SDL (benzo(a)pyrene)		
N	ATTACA STATE OF THE STATE OF TH	
General Statistics	COMMITTEE TO THE MENT OF THE PROPERTY OF THE P	
Number of Valid Samples 16 Number of Uniq	ue Samples	15

Raw Statistics		Log-transformed Statistics	
Minimum	0.0062	Minimum of Log Data	-5.083
Maximum	0.445	Maximum of Log Data	-0.81
Mean	0.0661	Mean of log Data	-3.88
Median	0.0078	SD of log Data	1.52
SD	0.115		
Coefficient of Variation	1.737		
Skewness	2.722		
	elevant UC	I Chatintina	
Normal Distribution Test	elevant oc	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.598	Shapiro Wilk Test Statistic	0.764
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.70
Data not Normal at 5% Significance Level	0.007	Data not Lognormal at 5% Significance Level	0.00
Data not normal at 5% Significance Level		Data not cognomia at 5% significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.116	95% H-UCL	0.27
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.168
95% Adjusted-CLT UCL	0.134	97.5% Chebyshev (MVUE) UCL	0.215
95% Modified-t UCL	0.12	99% Chebyshev (MVUE) UCL	0.309
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.48	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.138		
nu star	15.36		
Approximate Chi Square Value (.05)	7.512	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	0.113
Adjusted Chi Square Value	6.895	95% Jackknife UCL	0.116
		95% Standard Bootstrap UCL	0.113
Anderson-Darling Test Statistic	1.831	95% Bootstrap-t UCL	0.184
Anderson-Darling 5% Critical Value	0.793	95% Hall's Bootstrap UCL	0.279
Kolmogorov-Smirnov Test Statistic	0.36	95% Percentile Bootstrap UCL	0.117
Kolmogorov-Smirnov 5% Critical Value	0.227	95% BCA Bootstrap UCL	0.14
Data not Gamma Distributed at 5% Significance Lev	1	95% Chebyshev(Mean, Sd) UCL	0.19
		97.5% Chebyshev(Mean, Sd) UCL	0.24
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.352
95% Approximate Gamma UCL	0.135		
95% Adjusted Gamma UCL	0.147		11111111111111111111111111111111111111
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.352
Potential UCL to Use			0.352
Number of Valid Samples	General S	Number of Unique Samples	16
Raw Statistics		Log-transformed Statistics	
Minimum	0.0043	Minimum of Log Data	-5.443
Maximum	0.611	Maximum of Log Data	-0.493
			-3.526
Mean	0.1	Mean of log Data	-ي.پ∠∪

New Trans.	gagjagagaassaate	Process of the control of the contro	Acceptant of a
SDI	0.157		
Coefficient of Variation	1.565		······
Skewness	2.573		-
	Relevant UCI		
Normal Distribution Test	0.00	Lognormal Distribution Test	
Shapiro Wilk Cestion Melico	0.66	Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.8
Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	0.887	Data not Lognormal at 5% Significance Level	0.8
Data not roomal at 0% digital called Level		Data not cognomia at 0 % organicarico covor	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.169	95% H-UCL	0.8
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.3
95% Adjusted-CLT UCL	0.192	97.5% Chebyshev (MVUE) UCL	0.4
95% Modified-t UCL	0.173	99% Chebyshev (MVUE) UCL	0.6
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.461	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	0.218		
nu star	14.74	N	
Adjusted Lougl of Similiary	7.082	Nonparametric Statistics 95% CLT UCL	0.1
Adjusted Level of Significance Adjusted Chi Square Value	0.0335 6.485	95% Jackknife UCL	0.1
Adjusted Citi Square value	0.400	95% Standard Bootstrap UCL	0.1
Anderson-Darling Test Statistic	0.881	95% Bootstrap-t UCL	0.1
Anderson-Darling 5% Critical Value	0.795	95% Hall's Bootstrap UCL	0.4
Kolmogorov-Smirnov Test Statistic	0.25	95% Percentile Bootstrap UCL	0.1
Kolmogorov-Smirnov 5% Critical Value	0.227	95% BCA Bootstrap UCL	0.1
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.2
		97.5% Chebyshev(Mean, Sd) UCL	0.3
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.4
95% Approximate Gamma UCL	0.209		
95% Adjusted Gamma UCL	0.228		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.4
ılt or 1/2 SDL (benzo(g,h,i)perylene)			
	General St	atistics	ta ran a va
Number of Valid Samples	16	Number of Unique Samples	15
Raw Statistics		Log-transformed Statistics	
Minimum	0.0062	Minimum of Log Data	-5.08
Maximum	0.442	Maximum of Log Data	-0.81
Mean	0.0661	Mean of log Data	-3.85
Median	0.0086	SD of log Data	1.4
SD	0.117		
Coefficient of Variation	1.766		
Skewness	2.643		

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Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.594	Shapiro Wilk Test Statistic	0.80
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.887
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.117	95% H-UCL	0.244
95% UCLs (Adjusted for Skewness)	***************************************	95% Chebyshev (MVUE) UCL	0.161
95% Adjusted-CLT UCL	0.135	97.5% Chebyshev (MVUE) UCL	0.206
95% Modified-t UCL	0.121	99% Chebyshev (MVUE) UCL	0.294
Gamma Distribution Test	***************************************	Data Distribution	
k star (bias corrected)	0.49	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.135		
nu star	15.66		
Approximate Chi Square Value (.05)	7.726	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	0.114
Adjusted Chi Square Value	7.099	95% Jackknife UCL	0.117
		95% Standard Bootstrap UCL	0.112
Anderson-Darling Test Statistic	1.602	95% Bootstrap-t UCL	0.217
Anderson-Darling 5% Critical Value	0.792	95% Hall's Bootstrap UCL	0.304
Kolmogorov-Smirnov Test Statistic	0.303	95% Percentile Bootstrap UCL	0.117
Kolmogorov-Smirnov 5% Critical Value	0.226	95% BCA Bootstrap UCL	0.142
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.193
		97.5% Chebyshev(Mean, Sd) UCL	0.248
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.357
95% Approximate Gamma UCL	0.134		
95% Adjusted Gamma UCL	0.146		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.357
	and the second s		
It or 1/2 SDL (benzo(k)fluoranthene)			
lt or 1/2 SDL (benzo(k)fluoranthene)	General Stati	stics	
It or 1/2 SDL (benzo(k)fluoranthene) Number of Valid Samples	General Stati	stics Number of Unique Samples	15
Number of Valid Samples		Number of Unique Samples	
Number of Valid Samples Raw Statistics	16	Number of Unique Samples Log-transformed Statistics	15
Number of Valid Samples Raw Statistics Minimum	0.0095	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	15
Number of Valid Samples Raw Statistics Minimum Maximum	0.0095 0.318	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	15 -4.651 -1.146 -3.644
Number of Valid Samples Raw Statistics Minimum Maximum Mean	0.0095 0.318 0.0589	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	15 -4.651 -1.146 -3.644
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	0.0095 0.318 0.0589 0.0122	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	15 -4.651 -1.146 -3.644
Raw Statistics Minimum Maximum Mean Median SD	0.0095 0.318 0.0589 0.0122 0.0853	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	15 -4.651 -1.146 -3.644
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0095 0.318 0.0589 0.0122 0.0853 1.447	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	15 -4.651 -1.146 -3.644
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0095 0.318 0.0589 0.0122 0.0853 1.447 2.204	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	15 -4.651 -1.146 -3.644
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0095 0.318 0.0589 0.0122 0.0853 1.447 2.204	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-4.651 -1.146 -3.644 1.253
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Read Normal Distribution Test	0.0095 0.318 0.0589 0.0122 0.0853 1.447 2.204	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data tatistics Lognormal Distribution Test	15 -4.651 -1.146

Assuming Normal Distribution	5 - 8 - 8 - 8 - 1 - 1 - 1 - 1	Assuming Lognormal Distribution	
95% Student's-t UCL	0.0963	95% H-UCL	0.15
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.13
95% Adjusted-CLT UCL	0.107	97.5% Chebyshev (MVUE) UCL	0.1
95% Modified-t UCL	0.0983	99% Chebyshev (MVUE) UCL	0.2
Gamma Distribution Test		Data Distribution	/m % % % pp = = 4 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 +
k star (bias corrected)	0.641	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.0919		
nu star	20.52		
Approximate Chi Square Value (.05)	11.24	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	0.0
Adjusted Chi Square Value	10.46	95% Jackknife UCL	0.0
		95% Standard Bootstrap UCL	0.0
Anderson-Darling Test Statistic	1.775	95% Bootstrap-t UCL	0.1
Anderson-Darling 5% Critical Value	0.776	95% Hall's Bootstrap UCL	0.1
Kolmogorov-Smirnov Test Statistic	0.35	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.223	95% BCA Bootstrap UCL	0.1
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.1
		97.5% Chebyshev(Mean, Sd) UCL	0.1
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.2
95% Approximate Gamma UCL	0.108		
95% Adjusted Gamma UCL	0.116		

Potential UCL to Use It or 1/2 SDL (beryllium)		Use 99% Chebyshev (Mean, Sd) UCL	0.2
	General S		0.2
	General S		0.2
ult or 1/2 SDL (beryllium)		tatistics	
Ilt or 1/2 SDL (beryllium) Number of Valid Samples		tatistics Number of Unique Samples	12
Number of Valid Samples Raw Statistics	16	tatistics Number of Unique Samples Log-transformed Statistics	12
Number of Valid Samples Raw Statistics Minimum	0.29	tatistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data	-1.23 -0.19
Number of Valid Samples Raw Statistics Minimum Maximum	0.29	Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-1.23 -0.19
Number of Valid Samples Raw Statistics Minimum Maximum Mean	0.29 0.82 0.463	tatistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-1.23 -0.19
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	0.29 0.82 0.463 0.42	tatistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-1.23 -0.19
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	0.29 0.82 0.463 0.42 0.149	tatistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-1.23 -0.19
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.29 0.82 0.463 0.42 0.149 0.322	tatistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-1.23 -0.19
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.29 0.82 0.463 0.42 0.149 0.322 0.894	tatistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-1.23 -0.19
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.29 0.82 0.463 0.42 0.149 0.322 0.894	tatistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.29 0.82 0.463 0.42 0.149 0.322 0.894	Log-transformed Statistics Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test	-1.23 -0.19 -0.81 0.3
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic	0.29 0.82 0.463 0.42 0.149 0.322 0.894 Relevant UCL	tatistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic	-1.23 -0.19 -0.81 0.3
Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness Raw Statistics Minimum Median SD Coefficient of Variation Skewness Raw Statistics	0.29 0.82 0.463 0.42 0.149 0.322 0.894 Relevant UCL	Log-transformed Statistics Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	-1.23 -0.19 -0.81 0.3
Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness Raw Statistics Minimum Mean Median SD Coefficient of Variation Skewness	0.29 0.82 0.463 0.42 0.149 0.322 0.894 Relevant UCL	tatistics Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level	-1.23 -0.19 -0.81 0.3
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Remain Statistics Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution	0.29 0.82 0.463 0.42 0.149 0.322 0.894 Relevant UCL 0.905 0.887	tatistics Log-transformed Statistics	12 -1.23 -0.19 -0.81 0.3 0.9 0.8
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Raw Statistics Minimum Mean Median SD Coefficient of Variation Skewness Raw Statistic Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	0.29 0.82 0.463 0.42 0.149 0.322 0.894 Relevant UCL 0.905 0.887	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	-1.23 -0.19 -0.81 0.3

Gamma Distribution Test		Data Distribution	
k star (bias corrected)	9.119	Data appear Normal at 5% Significance Level	
Theta Star	0.0508		······································
nu star	291.8		
Approximate Chi Square Value (.05)	253.2	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	0.52
Adjusted Chi Square Value	249.2	95% Jackknife UCL	0.52
		95% Standard Bootstrap UCL	0.52
Anderson-Darling Test Statistic	0.452	95% Bootstrap-t UCL	0.54
Anderson-Darling 5% Critical Value	0.739	95% Hall's Bootstrap UCL	0.54
Kolmogorov-Smirnov Test Statistic	0.161	95% Percentile Bootstrap UCL	0.52
Kolmogorov-Smirnov 5% Critical Value	0.215	95% BCA Bootstrap UCL	0.53
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	0.62
		97.5% Chebyshev(Mean, Sd) UCL	0.69
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.83
95% Approximate Gamma UCL	0.534		
95% Adjusted Gamma UCL	0.542		
Potential UCL to Use		Use 95% Student's-t UCL	0.52
Raw Statistics		Log-transformed Statistics	
Minimum	0.675	Minimum of Log Data	-0.393
Maximum	27.2	Maximum of Log Data	3.30
Mean	12.04	Mean of log Data	1.69
Median	13.45	SD of log Data	1.61
SD Coefficient of Veriation	9.92		***************************************
Coefficient of Variation Skewness	0.824 -0.0194		
F	Relevant UCL	Statistics	
Normal Distribution Test	.5.0.4.11.002	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.856	Shapiro Wilk Test Statistic	0.73
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.88
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	V	Assuming Lognormal Distribution	denomina de de de de de de de de de de de de de
95% Student's-t UCL	16.39	95% H-UCL	97.34
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	52.5
95% Adjusted-CLT UCL	16.11	97.5% Chebyshev (MVUE) UCL	67.76
95% Modified-t UCL	16.39	99% Chebyshev (MVUE) UCL	97.73
Gamma Distribution Test			
Serial Distribution (CS)	1	Data Distribution	
k star (bias corrected)	0.657	Data Distribution Data do not follow a Discernable Distribution (0.05))
	0.657 18.32)

	384045 79635		ou Aurio Agon VAS Debite Til eggi olekki ke zur gan
Approximate Chi Square Value (.05)	11.62	Nonparametric Statistics	Antique la Antique de Antique de la constant
Adjusted Level of Significance	0.0335	95% CLT UCL	16.12
Adjusted Chi Square Value	10.83	95% Jackknife UCL	16.39
Adjacta official value of the state of the s	10.00	95% Standard Bootstrap UCL	16.06
Anderson-Darling Test Statistic	1.705	95% Bootstrap-t UCL	16.58
Anderson-Darling 5% Critical Value	0.774	95% Hall's Bootstrap UCL	16.03
Kolmogorov-Smirnov Test Statistic	0.774	95% Percentile Bootstrap UCL	15.89
Kolmogorov-Smirnov 5% Critical Value	0.223	95% BCA Bootstrap UCL	15.84
		95% Chebyshev(Mean, Sd) UCL	22.85
Data not Gamma Distributed at 5% Significance Le	vei	97.5% Chebyshev(Mean, Sd) UCL	
			27.53
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	36.72
95% Approximate Gamma UCL	21.81		
95% Adjusted Gamma UCL	23.4		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	36.72
	ICL exceeds	s the maximum observation	
bult or 1/2 CDI (buttyl box and phytolete)			
sult or 1/2 SDL (butyl benzyl phthalate)			•
	General S		
Number of Valid Samples	16	Number of Unique Samples	14
Raw Statistics		Log-transformed Statistics	***************************************
Minimum	0.0076	Minimum of Log Data	-4.873
Maximum	0.202	Maximum of Log Data	-1.599
Mean	0.0208	Mean of log Data	-4.553
Median	0.0082	SD of log Data	0.798
SD	0.0082	OD OF FOR DUILD	0.750
Coefficient of Variation Skewness	2.323 3.996		alfra e este con éta fila fest casa partembre fre
			free-content to fever and a feet
	televant UC		
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.292	Shapiro Wilk Test Statistic	0.405
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.887
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Dietribution			
Assuming Normal Distribution	0.040	Assuming Lognormal Distribution	0.022
95% Student's-t UCL	0.042	95% H-UCL	
95% Student's-t UCL 95% UCLs (Adjusted for Skewness)		95% H-UCL 95% Chebyshev (MVUE) UCL	0.027
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	0.0536	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	0.023 0.027 0.033
95% Student's-t UCL 95% UCLs (Adjusted for Skewness)		95% H-UCL 95% Chebyshev (MVUE) UCL	0.027 0.033
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	0.0536	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	0.027 0.033
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL	0.0536	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	0.027 0.033 0.044
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test	0.0536 0.044	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	0.02 0.03 0.04
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected)	0.0536 0.044 0.743	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	0.02 0.03 0.04
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star	0.0536 0.044 0.743 0.028 23.78	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05)	0.027 0.033 0.044
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05)	0.0536 0.044 0.743 0.028 23.78 13.68	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	0.027 0.033 0.044
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star	0.0536 0.044 0.743 0.028 23.78	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05) Nonparametric Statistics	0.027 0.033 0.044

Anderson-Darling Test Statistic	4.868	95% Bootstrap-t UCL	0.642
Anderson-Darling 5% Critical Value	0.769	95% Hall's Bootstrap UCL	0.369
Kolmogorov-Smirnov Test Statistic	0.499	95% Percentile Bootstrap UCL	0.044
Kolmogorov-Smirnov 5% Critical Value	0.222	95% BCA Bootstrap UCL	0.057
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.073
		97.5% Chebyshev(Mean, Sd) UCL	0.096
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.030
95% Approximate Gamma UCL	0.0362	99 % Chebyshev(Mean, 3d) OCL	0.141
1.			
95% Adjusted Gamma UCL	0.0386		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.073
esult or 1/2 SDL (carbazole)			
	General Sta	tistics	
Number of Valid Samples	16	Number of Unique Samples	15
Raw Statistics		Log-transformed Statistics	
Minimum	0.0060	Minimum of Log Data	-5.108
Maximum	0.0861	Maximum of Log Data	-2.452
Mean	0.0151	Mean of log Data	-4.632
Median	0.0069	SD of log Data	0.79
SD	0.0214		
Coefficient of Variation	1.413		
Skewness	2.948		/
R Normal Distribution Test	elevant UCL	Statistics Lognormal Distribution Test	Language (art-partra)s so
Shapiro Wilk Test Statistic	0.49	Shapiro Wilk Test Statistic	0.64
		Shapiro Wilk Critical Value	0.887
Shapiro Wilk Critical Value	0.887	·	U.007
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	tionable and an advantagement
Assuming Normal Distribution		Assuming Lognormal Distribution	······································
95% Student's-t UCL	0.0245	95% H-UCL	0.021
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.024
95% Adjusted-CLT UCL	0.0281	97.5% Chebyshev (MVUE) UCL	0.030
95% Modified-t UCL	0.0252	99% Chebyshev (MVUE) UCL	0.040
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.076	Data do not follow a Discernable Distribution (0.05	=1
Theta Star	0.0141	Data do not follow a Discentable Distribution (0.00	~)
nu star	34.44		
Approximate Chi Square Value (.05)	22.01	Nonparametric Statistics	***************************************
		95% CLT UCL	0.023
Adjusted Chi Square Value	0.0335	The state of the s	
Adjusted Chi Square Value	20.89	95% Standard Restation LIGI	0.024
		95% Standard Bootstrap UCL	0.023
Anderson-Darling Test Statistic	3.042	95% Bootstrap-t UCL	0.064
Anderson-Darling 5% Critical Value	0.759	95% Hail's Bootstrap UCL	0.072
Kolmogorov-Smirnov Test Statistic	0.416	95% Percentile Bootstrap UCL	0.024
Kolmogorov-Smirnov 5% Critical Value	0.22	95% BCA Bootstrap UCL	0.030
Data not Gamma Distributed at 5% Significance Lev		95% Chebyshev(Mean, Sd) UCL	0.038

	literation of		
THE REPORT OF THE PROPERTY OF	AMERICA SE	97.5% Chebyshev(Mean, Sd) UCL	0.048
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.068
95% Approximate Gamma UCL	0.0237		
95% Adjusted Gamma UCL	1		
Potential UCL to Use	1	Use 95% Chebyshev (Mean, Sd) UCL	0.038
sult or 1/2 SDL (chloroform)			
Number of Valid Samples	General S	Statistics Number of Unique Samples	15
	1		
Raw Statistics		Log-transformed Statistics	
Minimum	1.1400E-4	Minimum of Log Data	-9.079
Maximum		Maximum of Log Data	-5.246
	9.0178E-4	Mean of log Data	-7.93
Median	2.2100E-4	SD of log Data	1.189
SD	Í		Appenie for the sector consistency
Coefficient of Variation			
Skewness	2.462		www.water
	Relevant UC	CL Statistics	
Normal Distribution Test	,	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.486	Shapiro Wilk Test Statistic	0.796
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.887
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	ann ann a state ann a state ann a
95% Student's-t UCL	0.0016	95% H-UCL	0.001
95% UCLs (Adjusted for Skewness)	<u> </u>	95% Chebyshev (MVUE) UCL	0.001
95% Adjusted-CLT UCL	0.0018	97.5% Chebyshev (MVUE) UCL	0.002
95% Modified-t UCL	0.0016	99% Chebyshev (MVUE) UCL	0.002
Gamma Distribution Test		Data Distribution	na esta esta a paramente e en la compansa como qual con la
k star (bias corrected)	0.58	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.0015		·/
nu star			
Approximate Chi Square Value (.05)	9.799	Nonparametric Statistics	
Adjusted Level of Significance	1	95% CLT UCL	0.001
Adjusted Chi Square Value	9.081	95% Jackknife UCL	0.001
,		95% Standard Bootstrap UCL	0.001
Anderson-Darling Test Statistic	2.224	95% Bootstrap-t UCL	0.006
Anderson-Darling 5% Critical Value	0.782	95% Hall's Bootstrap UCL	0.006
Kolmogorov-Smirnov Test Statistic	1	95% Percentile Bootstrap UCL	0.001
Kolmogorov-Smirnov 5% Critical Value	0.225	95% BCA Bootstrap UCL	0.001
Data not Gamma Distributed at 5% Significance Lo	<u> </u>	95% Chebyshev(Mean, Sd) UCL	0.002
		97.5% Chebyshev(Mean, Sd) UCL	0.003
Assuming Gamma Distribution	-	99% Chebyshev(Mean, Sd) UCL	0.0050
95% Approximate Gamma UCL	0.0017		
95% Adjusted Gamma UCL	0.0018		V.10444
	0.00,10		· · · · · · · · · · · · · · · · · · ·

Number of Valid Sample Raw Statistics Minimur Maximur Media Media Coefficient of Variatio	n 5.01 n 14.4 n 9.214 n 10.19 D 2.644 n 0.287 s -0.17	Datistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	1.61 2.66 2.17 0.31
Number of Valid Sample Raw Statistics Minimur Maximur Mea Media SI Coefficient of Variatio	s 16 n 5.01 n 14.4 n 9.214 n 10.19 D 2.644 n 0.287 s -0.17	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	1.61 2.66 2.17
Raw Statistics Minimur Maximur Mea Media SI Coefficient of Variatio	s 16 n 5.01 n 14.4 n 9.214 n 10.19 D 2.644 n 0.287 s -0.17	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	1.61 2.66 2.17
Raw Statistics Minimur Maximur Mea Media SI Coefficient of Variatio	n 5.01 n 14.4 n 9.214 n 10.19 D 2.644 n 0.287 s -0.17	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	1.61 2.66 2.17
Minimur Maximur Mea Media SI Coefficient of Variatio	n 14.4 n 9.214 n 10.19 D 2.644 n 0.287 s -0.17	Minimum of Log Data Maximum of Log Data Mean of log Data	2.66 2.17
Maximur Mea Media SI Coefficient of Variatio	n 14.4 n 9.214 n 10.19 D 2.644 n 0.287 s -0.17	Minimum of Log Data Maximum of Log Data Mean of log Data	2.66 2.17
Media Media SI Coefficient of Variatio	n 9.214 n 10.19 D 2.644 n 0.287 s -0.17	Mean of log Data	2.17
Media SI Coefficient of Variatio	n 10.19 D 2.644 n 0.287 s -0.17	_	
S Coefficient of Variatio	2.644 n 0.287 s -0.17	SD of log Data	0.31
Coefficient of Variatio	n 0.287 s -0.17		
	s -0.17		
Skewnes			***************************************
	Relevant UCI	L Statistics	~~~~
Normal Distribution Test		Lognormal Distribution Test	STAM-STRIME PROPERTY OF
Shapiro Wilk Test Statisti	c 0.902	Shapiro Wilk Test Statistic	0.87
Shapiro Wilk Critical Valu	e 0.887	Shapiro Wilk Critical Value	0.88
Data appear Normal at 5% Significance Leve	al .	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UC	L 10.37	95% H-UCL	10.8
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	12.44
95% Adjusted-CLT UC	L 10.27	97.5% Chebyshev (MVUE) UCL	13.83
95% Modified-t UC		99% Chebyshev (MVUE) UCL	16.55
Gamma Distribution Test		Data Distribution	***************************************
k star (bias corrected) 9,542	Data appear Normal at 5% Significance Level	
Theta Sta	<u> </u>	Data appear Normal at 078 Olymnetics Ecver	
nu sta			
Approximate Chi Square Value (.05	1 1	Nonparametric Statistics	
Adjusted Level of Significance		95% CLT UCL	10.3
Adjusted Chi Square Value	1 1	95% Jackknife UCL	10.37
		95% Standard Bootstrap UCL	10.24
Anderson-Darling Test Statisti	0.99	95% Bootstrap-t UCL	10.32
Anderson-Darling 5% Critical Value	1	95% Hall's Bootstrap UCL	10.26
Kolmogorov-Smirnov Test Statisti	1	95% Percentile Bootstrap UCL	10.21
Kolmogorov-Smirnov 5% Critical Value		95% BCA Bootstrap UCL	10.2
ata follow Appr. Gamma Distribution at 5% Significa	_ <u> </u>	95% Chebyshev(Mean, Sd) UCL	12.09
		97.5% Chebyshev(Mean, Sd) UCL	13.34
Assuming Gamma Distribution	<u> </u>	99% Chebyshev(Mean, Sd) UCL	15.79
95% Approximate Gamma UCI	_ 10.58	,, -,	
95% Adjusted Gamma UCI	1		*
Potential UCL to Use		Use 95% Student's-t UCL	10.37

Nimber of Marie	General :		15
Number of Valid Samples	16	Number of Unique Samples	15
Raw Statistics	***************************************	Log-transformed Statistics	
Minimum	0.0054	Minimum of Log Data	-5.212
Maximum	0.475	Maximum of Log Data	-0.744
Mean	0.0774	Mean of log Data	-3.614
Median	0.0177	SD of log Data	1.52
SD	0.123		-He-7,00-24,44,00-10-70-71
Coefficient of Variation	1.585		************************
Skewness	2.577		
P	Polovoot I IC	DL Statistics	
Normal Distribution Test	Relevant UC	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.649	Cognormal Distribution Test Shapiro Wilk Test Statistic	0.886
Shapiro Wilk Test Statistic	0.887	Shapiro Wilk Test Statistic	0.887
Data not Normal at 5% Significance Level	0.007	Data not Lognormal at 5% Significance Level	
			-banceg-re-made-empo
Assuming Normal Distribution		Assuming Lognormal Distribution	· · · · · · · · · · · · · · · · · · ·
95% Student's-t UCL	0.131	95% H-UCL	0.353
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.219
95% Adjusted-CLT UCL	0.149	97.5% Chebyshev (MVUE) UCL	0.28
95% Modified-t UCL	0.134	99% Chebyshev (MVUE) UCL	0.404
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.519	Data Follow Appr. Gamma Distribution at 5% Significance	امیم ا م
Theta Star	0.149	Data Follow Appl. Callina Distribution at 0% Oignineand	'e resei
nu star	16.62		
Approximate Chi Square Value (.05)	8.399	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	0.128
Adjusted Chi Square Value	7.741	95% Jackknife UCL	0.131
		95% Standard Bootstrap UCL	0.125
Anderson-Darling Test Statistic	0.903	95% Bootstrap-t UCL	0.186
Anderson-Darling 5% Critical Value	0.789	95% Hall's Bootstrap UCL	0.311
Kolmogorov-Smirnov Test Statistic	0.206	95% Percentile Bootstrap UCL	0.126
Kolmogorov-Smirnov 5% Critical Value	0.226	95% BCA Bootstrap UCL	0.16
Data follow Appr. Gamma Distribution at 5% Significance	ce Level	95% Chebyshev(Mean, Sd) UCL	0.211
		97.5% Chebyshev(Mean, Sd) UCL	0.269
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.382
95% Approximate Gamma UCL	0.153		
95% Adjusted Gamma UCL	0.166		
Potential UCL to Use		Use 95% Approximate Gamma UCL	0.153
Folelital OCL to Use	.,	Ose 33 % Approximate Gamma OCL	U.150
esult or 1/2 SDL (cobalt)			ingleiniann en enger pr
	General S	Statistics	
Number of Valid Samples	16	Number of Unique Samples	16
		Log-transformed Statistics	
Raw Statistics		On-transformed Statistics	

Maximum	7.16	Maximum of Log Data	1.96
Mean	4.385	Mean of log Data	1.44
Median	4.06	SD of log Data	0.24
SD	1.131		
Coefficient of Variation	0.258		
Skewness	0.956		
	Relevant U	CL Statistics	to and the second second
Normal Distribution Test		Lognormal Distribution Test	······································
Shapiro Wilk Test Statistic	0.916	Shapiro Wilk Test Statistic	0.94
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.88
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	4.881	95% H-UCL	4.93
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	5.56
95% Adjusted-CLT UCL	4.922	97.5% Chebyshev (MVUE) UCL	6.07
95% Modified-t UCL	4.892	99% Chebyshev (MVUE) UCL	7.07
Gamma Distribution Test	and the state of t	Data Distribution	
k star (bias corrected)	14.16	Data appear Normal at 5% Significance Level	
Theta Star	0.31		
nu star	453.1		
Approximate Chi Square Value (.05)	404.8	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	4.85
Adjusted Chi Square Value	399.6	95% Jackknife UCL	4.88
	***************************************	95% Standard Bootstrap UCL	4.82
Anderson-Darling Test Statistic	0.352	95% Bootstrap-t UCL	4.95
Anderson-Darling 5% Critical Value	0.737	95% Hall's Bootstrap UCL	4.97
Kolmogorov-Smirnov Test Statistic	0.129	95% Percentile Bootstrap UCL	4.84
Kolmogorov-Smirnov 5% Critical Value	0.215	95% BCA Bootstrap UCL	4.86
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	5.6°
		97.5% Chebyshev(Mean, Sd) UCL	6.18
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	7.19
95% Approximate Gamma UCL	4.909		
95% Adjusted Gamma UCL	4.973		
Potential UCL to Use	MARIEN & EXC. P. 1917 P. 1918	Use 95% Student's-t UCL	4.88
sult or 1/2 SDL (copper)			
Number of Valid Samples	General	Statistics Number of Unique Samples	16
Raw Statistics		Log-transformed Statistics	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
· Minimum	3.28	Minimum of Log Data	1.18
Maximum	12.6	Maximum of Log Data	2.53
Mean	7.112	Mean of log Data	1.87
Median	6.655	SD of log Data	0.45
SD	2.997		
Coefficient of Variation	0.421		P-45-45

Skewness	0.299		
	Relevant UCL	Statistics	
Normal Distribution Test	TOCVAIN OOL	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.933	Shapiro Wilk Test Statistic	0.9
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.8
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	8.425	95% H-UCL	9.1
95% UCLs (Adjusted for Skewness)	0.120	95% Chebyshev (MVUE) UCL	10.8
95% Adjusted-CLT UCL	8.404	97.5% Chebyshev (MVUE) UCL	12.3
95% Modified-t UCL	8.435	99% Chebyshev (MVUE) UCL	15.4
Gamma Distribution Test	4 000	Data Distribution	
k star (bias corrected) Theta Star	4.602 1.546	Data appear Normal at 5% Significance Level	
nu star	1.546		
Approximate Chi Square Value (.05)	120.2	Nonparametric Statistics	
Approximate Cni Square value (.05) Adjusted Level of Significance	0.0335	95% CLT UCL	8.3
	117.4	95% CLT UCL	8.4
Adjusted Chi Square Value	117.4	95% Standard Bootstrap UCL	8.2
Anderson-Darling Test Statistic	0.46	95% Sootstrap CCL	8.4
		·	6. 4 8.3
Anderson-Darling 5% Critical Value	0.741	95% Hall's Bootstrap UCL	8.2
Kolmogorov-Smirnov Test Statistic	0.168	95% Percentile Bootstrap UCL	8.2
Kolmogorov-Smirnov 5% Critical Value	0.216	95% BCA Bootstrap UCL	10.3
Data appear Gamma Distributed at 5% Significance	Leve	95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL	11.7
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	14.5
95% Approximate Gamma UCL	8.712	33% Chebyshev(Weah, 3d) OCL	
95% Adjusted Gamma UCL	8.918		enne verse en voyens
Potential UCL to Use		Use 95% Student's-t UCL	8.4
sult or 1/2 SDL (cyclohexane)			
	General Sta		
Number of Valid Samples	16	Number of Unique Samples	16
Raw Statistics		Log-transformed Statistics	
Minimum	8.9500E-4	Minimum of Log Data	-7.01
Maximum	0.0042	Maximum of Log Data	-5.46
Mean	0.0023	Mean of log Data	-6.21
Median	0.0017	SD of log Data	0.5
SD	0.0013		
Coefficient of Variation	0.561		
Skewness	0.694		
	Relevant UCL S	Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.793	Shapiro Wilk Test Statistic	0.8

The second of the second companies of the second second second contract in the second			
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.887
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0028	95% H-UCL	0.003
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.003
95% Adjusted-CLT UCL	0.0029	97.5% Chebyshev (MVUE) UCL	0.004
95% Modified-t UCL	0.0028	99% Chebyshev (MVUE) UCL	0.005
Gamma Distribution Test	-	Data Distribution	
k star (bias corrected)	2.996	Data Follow Appr. Gamma Distribution at 5% Significance	I ovol
		Data Follow Appr. Gamma Distribution at 5% Significant	ce Levei
Theta Star			
nu star	95.86		
Approximate Chi Square Value (.05)	74.28	Nonparametric Statistics	***************************************
Adjusted Level of Significance	0.0335	95% CLT UCL	0.002
Adjusted Chi Square Value	72.12	95% Jackknife UCL	0.002
		95% Standard Bootstrap UCL	0.002
Anderson-Darling Test Statistic	1.082	95% Bootstrap-t UCL	0.00
Anderson-Darling 5% Critical Value	0.743	95% Hall's Bootstrap UCL	0.002
Kolmogorov-Smirnov Test Statistic	0.215	95% Percentile Bootstrap UCL	0.002
Kolmogorov-Smirnov 5% Critical Value	0.216	95% BCA Bootstrap UCL	0.00
Data follow Appr. Gamma Distribution at 5% Significar	ice Level	95% Chebyshev(Mean, Sd) UCL	0.00
		97.5% Chebyshev(Mean, Sd) UCL	0.00
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.00
95% Approximate Gamma UCL	0.0029		
95% Adjusted Gamma UCL	0.0030		
Potential UCL to Use		Use 95% Approximate Gamma UCL	0.002
Result or 1/2 SDL (dibenz(a,h)anthracene)			
	General S	Statistics	
Number of Valid Samples	General S	Statistics Number of Unique Samples	15
Number of Valid Samples Raw Statistics			15
		Number of Unique Samples	
Raw Statistics	16	Number of Unique Samples Log-transformed Statistics	15 -5.133 -1.448
Raw Statistics Minimum	0.0059	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	-5.133 -1.448
Raw Statistics Minimum Maximum	0.0059 0.235	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-5.133 -1.448 -4.041
Raw Statistics Minimum Maximum Mean	0.0059 0.235 0.0435	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.133 -1.448 -4.041
Raw Statistics Minimum Maximum Mean Median SD	0.0059 0.235 0.0435 0.0078 0.0649	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.133 -1.448 -4.041
Raw Statistics Minimum Maximum Mean Median	0.0059 0.235 0.0435 0.0078	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.133 -1.448 -4.041
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0059 0.235 0.0435 0.0078 0.0649 1.491	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-5.133 -1.448 -4.041
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0059 0.235 0.0435 0.0078 0.0649 1.491 2.176	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-5.133 -1.448 -4.041
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test	0.0059 0.235 0.0435 0.0078 0.0649 1.491 2.176	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-5.133 -1.448 -4.041 1.34
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic	0.0059 0.235 0.0435 0.0078 0.0649 1.491 2.176	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic	-5.133 -1.448 -4.041 1.34
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test	0.0059 0.235 0.0435 0.0078 0.0649 1.491 2.176	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test	-5.133
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.0059 0.235 0.0435 0.0078 0.0649 1.491 2.176	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	-5.133 -1.448 -4.041 1.342

95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.10
95% Adjusted-CLT UCL	0.0796	97.5% Chebyshev (MVUE) UCL	0.13
95% Modified-t UCL	0.0734	99% Chebyshev (MVUE) UCL	0.18
Gamma Distribution Test		Data Distribution	
	0.587		=1
k star (bias corrected) Theta Star	0.587	Data do not follow a Discernable Distribution (0.05	o)
nu star	18.77		
Approximate Chi Square Value (.05)	9.952	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	0.07
Adjusted Chi Square Value	9.227	95% Jackknife UCL	0.07
Adjusted Cili Square value	5.221	95% Standard Bootstrap UCL	0.07
Anderson-Darling Test Statistic	1.818	95% Bootstrap-t UCL	0.10
Anderson-Darling 5% Critical Value	0.781	95% Hall's Bootstrap UCL	0.10
Kolmogorov-Smirnov Test Statistic	0.358	95% Percentile Bootstrap UCL	0.13
Kolmogorov-Smirnov 5% Critical Value	0.224	95% BCA Bootstrap UCL	0.07
Data not Gamma Distributed at 5% Significance Lev	\	95% Chebyshev(Mean, Sd) UCL	0.00
Data not danima Distributed at 3% diginicance Les	YGI	97.5% Chebyshev(Mean, Sd) UCL	0.11
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.14
95% Approximate Gamma UCL	0.0821	33 % Chebyshev(Mean, 30) OCL	0.20
95% Adjusted Gamma UCL	0.0827		
30% Adjusted Gariffia OCL	0.0000		~
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.20
t or 1/2 SDL (dibenzofuran)	General Sta	tistics	
	General Sta	itistics Number of Unique Samples	14
t or 1/2 SDL (dibenzofuran) Number of Valid Samples		N ·	14
		N ·	14
Number of Valid Samples		Number of Unique Samples	14 -4.75
Number of Valid Samples Raw Statistics	16	Number of Unique Samples Log-transformed Statistics	
Number of Valid Samples Raw Statistics Minimum	0.0086	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	-4.75 -3.49
Number of Valid Samples Raw Statistics Minimum Maximum	0.0086 0.0305	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-4.75 -3.49 -4.486
Raw Statistics Minimum Maximum Mean	0.0086 0.0305 0.0123	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-4.75 -3.49 -4.486
Raw Statistics Minimum Maximum Mean Median	0.0086 0.0305 0.0123 0.0096	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-4.75 -3.49 -4.486
Raw Statistics Minimum Maximum Mean Median	0.0086 0.0305 0.0123 0.0096 0.0065	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-4.75
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0086 0.0305 0.0123 0.0096 0.0065 0.534 2.369	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-4.75 -3.49 -4.486
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0086 0.0305 0.0123 0.0096 0.0065 0.534	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-4.75 -3.49 -4.486
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0086 0.0305 0.0123 0.0096 0.0065 0.534 2.369	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test	-4.75 -3.49 -4.486
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Re Normal Distribution Test Shapiro Wilk Test Statistic	0.0086 0.0305 0.0123 0.0096 0.0065 0.534 2.369	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic	-4.75 -3.49 -4.486 0.38
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0086 0.0305 0.0123 0.0096 0.0065 0.534 2.369	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test	-4.75 -3.49 -4.486 0.38
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Revenues Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	0.0086 0.0305 0.0123 0.0096 0.0065 0.534 2.369	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SLognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	-4.75 -3.49 -4.486 0.38
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Re Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	0.0086 0.0305 0.0123 0.0096 0.0065 0.534 2.369 elevant UCL \$	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution	-4.75 -3.49 -4.486 0.38 0.67
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Re Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	0.0086 0.0305 0.0123 0.0096 0.0065 0.534 2.369	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	-4.75 -3.49 -4.486 0.38 0.67 0.88
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Re Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.0086 0.0305 0.0123 0.0096 0.0065 0.534 2.369 elevant UCL 3	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-4.75 -3.49 -4.486 0.38 0.67 0.88
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Re Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.0086 0.0305 0.0123 0.0096 0.0065 0.534 2.369 elevant UCL \$	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-4.75 -3.49 -4.486 0.38 0.67 0.88
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Re Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.0086 0.0305 0.0123 0.0096 0.0065 0.534 2.369 elevant UCL 3	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-4.75 -3.49 -4.486 0.38 0.67 0.88

	1 47 12 47 2 7 A 1 6 6 1 A		
k star (bias corrected)	4.848	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.0025		
nu star	155.2		
Approximate Chi Square Value (.05)	127.4	Nonparametric Statistics	7
Adjusted Level of Significance	0.0335	95% CLT UCL	0.015
Adjusted Chi Square Value	124.5	95% Jackknife UCL	0.0152
		95% Standard Bootstrap UCL	0.0149
Anderson-Darling Test Statistic	2.403	95% Bootstrap-t UCL	0.0241
Anderson-Darling 5% Critical Value	0.741	95% Hall's Bootstrap UCL	0.0298
Kolmogorov-Smirnov Test Statistic	0.304	95% Percentile Bootstrap UCL	0.015
Kolmogorov-Smirnov 5% Critical Value	0.216	95% BCA Bootstrap UCL	0.0162
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.0194
		97.5% Chebyshev(Mean, Sd) UCL	0.0225
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0286
95% Approximate Gamma UCL	0.015		and the second s
95% Adjusted Gamma UCL	0.0153		
			lamen ere enge egere menggenjapan 1964 1966
Potential UCL to Use	,	Use 95% Student's-t UCL	0.0152
THE STATE OF THE PARTY OF THE STATE OF THE S		or 95% Modified-t UCL	0.0153
Result or 1/2 SDL (diethyl phthalate)			and the second section of the second
	General Stat	ictice	
Number of Valid Samples	16	Number of Unique Samples	14
			Militer of the Control of the Party of the P
Raw Statistics		Log-transformed Statistics	
Minimum	0.0104	Minimum of Log Data	-4.566
Maximum	0.0389	Maximum of Log Data	0.047
Mean			-3.247
	0.0135	Mean of log Data	-3.247 -4.369
Median	0.0135 0.0112	Mean of log Data SD of log Data	
Median SD			-4.369
	0.0112		-4.369
SD	0.0112 0.0069		-4.369
SD Coefficient of Variation Skewness	0.0112 0.0069 0.513	SD of log Data	-4.369
SD Coefficient of Variation Skewness	0.0112 0.0069 0.513 3.652	SD of log Data Statistics Lognormal Distribution Test	-4.369
SD Coefficient of Variation Skewness	0.0112 0.0069 0.513 3.652	SD of log Data	-4.369
SD Coefficient of Variation Skewness F Normal Distribution Test	0.0112 0.0069 0.513 3.652 Relevant UCL S	SD of log Data Statistics Lognormal Distribution Test	-4.369 0.326
SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic	0.0112 0.0069 0.513 3.652 Relevant UCL S	Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic	-4.369 0.326 0.602
Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	0.0112 0.0069 0.513 3.652 Relevant UCL S	Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	-4.369 0.326 0.602
Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	0.0112 0.0069 0.513 3.652 Relevant UCL S 0.461 0.887	Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution	-4.369 0.326 0.602 0.887
Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	0.0112 0.0069 0.513 3.652 Relevant UCL S	Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	-4.369 0.326 0.602 0.887
Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.0112 0.0069 0.513 3.652 Relevant UCL S 0.461 0.887	Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	0.602 0.887 0.0157 0.018
Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	0.0112 0.0069 0.513 3.652 Relevant UCL S 0.461 0.887 0.0166	Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	0.602 0.887 0.015 0.018
Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.0112 0.0069 0.513 3.652 Relevant UCL S 0.461 0.887	Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	0.602 0.887 0.015 0.018
Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	0.0112 0.0069 0.513 3.652 Relevant UCL S 0.461 0.887 0.0166	Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	0.602 0.887 0.015 0.018
Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL	0.0112 0.0069 0.513 3.652 Relevant UCL S 0.461 0.887 0.0166	Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	0.602 0.887 0.0157 0.018 0.0202
Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test	0.0112 0.0069 0.513 3.652 Relevant UCL S 0.461 0.887 0.0166 0.0181 0.0169	Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	0.602 0.887 0.0157 0.0187 0.0202
Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected)	0.0112 0.0069 0.513 3.652 Relevant UCL S 0.461 0.887 0.0166 0.0181 0.0169	Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	0.602 0.887 0.0157 0.0181 0.0202

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Adjusted Level of Significance	0.0335	95% CLT UCL	0.016
	į		
Adjusted Chi Square Value	164.5	95% Jackknife UCL	0.016
		95% Standard Bootstrap UCL	0.016
Anderson-Darling Test Statistic		95% Bootstrap-t UCL	0.025
Anderson-Darling 5% Critical Value	0.74	95% Hall's Bootstrap UCL	0.026
Kolmogorov-Smirnov Test Statistic	0.283	95% Percentile Bootstrap UCL	0.016
Kolmogorov-Smirnov 5% Critical Value	0.215	95% BCA Bootstrap UCL	0.018
Data not Gamma Distributed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL	0.021
**************************************		97.5% Chebyshev(Mean, Sd) UCL	0.024
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.030
95% Approximate Gamma UCL	0.0161	The state of the s	
95% Adjusted Gamma UCL	0.0164		
90% Aujusted Gamma OCL	0.0104		
Potential UCL to Use		Use 95% Student's-t UCL	0.016
		or 95% Modified-t UCL	0.016
esult or 1/2 SDL (di-n-octyl phthalate)			
	General S	Statistics	Martin State of African Constitution
Number of Valid Samples	16	Number of Unique Samples	13
Raw Statistics		Log-transformed Statistics	-4
Minimum	0.0051	Minimum of Log Data	-5.279
Maximum	0,192	Maximum of Log Data	-1.65
Mean	0.018	Mean of log Data	-4.875
Median	0.0056		0.9
SD	0.0465		
Coefficient of Variation	2.577		
Skewness	3.983		***************************************
I	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.303	Shapiro Wilk Test Statistic	0.476
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.887
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0384	95% H-UCL	0.020
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.022
95% Adjusted-CLT UCL	0.0495	97.5% Chebyshev (MVUE) UCL	0.027
95% Modified-t UCL	0.0403	99% Chebyshev (MVUE) UCL	0.038
95% Modified-t OCL	1		
		Data Distribution	
Gamma Distribution Test	0.612	Data Distribution	
Gamma Distribution Test k star (bias corrected)	0.613	Data Distribution Data do not follow a Discernable Distribution (0.09)	5)
Gamma Distribution Test k star (bias corrected) Theta Star	0.0294		5)
Gamma Distribution Test k star (bias corrected) Theta Star nu star	0.0294 19.61	Data do not follow a Discernable Distribution (0.09)	5)
Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05)	0.0294 19.61 10.57	Data do not follow a Discernable Distribution (0.09) Nonparametric Statistics	
Gamma Distribution Test k star (bias corrected) Theta Star nu star	0.0294 19.61	Data do not follow a Discernable Distribution (0.09) Nonparametric Statistics 95% CLT UCL	0.037
Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05)	0.0294 19.61 10.57	Data do not follow a Discernable Distribution (0.09) Nonparametric Statistics	0.037 0.038
Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance	0.0294 19.61 10.57 0.0335	Data do not follow a Discernable Distribution (0.09) Nonparametric Statistics 95% CLT UCL	0.037

The state of the s	A Grand	THE THE BEAR OF THE CONTROL OF THE PROPERTY OF	CHAT HAS SAN
Anderson-Darling 5% Critical Value	0.779	95% Hall's Bootstrap UCL	0.313
Kolmogorov-Smirnov Test Statistic	0.779	95% Percentile Bootstrap UCL	0.041
Kolmogorov-Smirnov 7est Statistic	0.408	95% BCA Bootstrap UCL	0.041
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.032
Data not dannia bistributed at 0% Significance Le	2VCI	97.5% Chebyshev(Mean, Sd) UCL	0.000
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.134
95% Approximate Gamma UCL	0.0335	99% Chebyshev (Mean, 30) OCC	0.104
95% Adjusted Gamma UCL	0.0353		***************************************
Potential UCL to Use	300000000000000000000000000000000000000	Use 95% Chebyshev (Mean, Sd) UCL	0.068
Result or 1/2 SDL (fluoranthene)			
	General S	Statistics	
Number of Valid Samples	16	Number of Unique Samples	16
Raw Statistics		Log-transformed Statistics	
Minimum	0.0068	Minimum of Log Data	-4.984
Maximum	0.804	Maximum of Log Data	-0.218
Mean	0.113	Mean of log Data	-3,442
Median	0.016	SD of log Data	1.651
SD	0.201		
Coefficient of Variation	1.786		arrenante anno 100 to the best and
Skewness	3.01		
			V 10 (444, 1-1-1-1 VA 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
F Normal Distribution Test Shapiro Wilk Test Statistic	Relevant UC	CL Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic	0.826
Normal Distribution Test Shapiro Wilk Test Statistic		Lognormal Distribution Test Shapiro Wilk Test Statistic	0.826 0.887
Normal Distribution Test	0.577	Lognormal Distribution Test	·
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	0.577	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	·
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	0.577	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution	0.887
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	0.577	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	**************************************
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	0.577	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	0.887
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.577 0.887 0.201	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	0.887 0.642 0.327
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.577 0.887 0.201	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	0.642 0.327 0.423
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL	0.577 0.887 0.201	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	0.642 0.327 0.423 0.611
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test	0.577 0.887 0.201 0.236 0.207	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	0.642 0.327 0.423 0.611
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected)	0.577 0.887 0.201 0.236 0.207	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	0.642 0.327 0.423 0.611
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star	0.577 0.887 0.201 0.236 0.207 0.451 0.25	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	0.642 0.327 0.423 0.611
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star	0.577 0.887 0.201 0.236 0.207 0.451 0.25 14.44	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.09)	0.642 0.327 0.423 0.611
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05)	0.577 0.887 0.201 0.236 0.207 0.451 0.25 14.44 6.872	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05) Nonparametric Statistics	0.887 0.642 0.327 0.423 0.611
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance	0.577 0.887 0.201 0.236 0.207 0.451 0.25 14.44 6.872 0.0335	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.0) Nonparametric Statistics 95% CLT UCL	0.887 0.642 0.327 0.423 0.611
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance	0.577 0.887 0.201 0.236 0.207 0.451 0.25 14.44 6.872 0.0335	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.0) Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL	0.887 0.642 0.327 0.423 0.611 5) 0.196 0.201
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value	0.577 0.887 0.201 0.236 0.207 0.451 0.25 14.44 6.872 0.0335 6.285	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.0) Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL	0.887 0.642 0.327 0.423 0.611 5) 0.196 0.201 0.194
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic	0.577 0.887 0.201 0.236 0.207 0.451 0.25 14.44 6.872 0.0335 6.285 1.352	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.09) Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL	0.887 0.642 0.327 0.423 0.611 5) 0.196 0.201 0.194 0.306
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value	0.577 0.887 0.201 0.236 0.207 0.451 0.25 14.44 6.872 0.0335 6.285 1.352 0.796	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.09) Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Bootstrap UCL 95% Bootstrap-t UCL	0.887 0.642 0.327 0.423 0.611 5) 0.196 0.201 0.194 0.306 0.492
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistici	0.577 0.887 0.201 0.236 0.207 0.451 0.25 14.44 6.872 0.0335 6.285 1.352 0.796 0.27 0.227	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.09) Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL	0.887 0.642 0.327 0.423 0.611 55) 0.196 0.201 0.194 0.306 0.492 0.201

Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.61
95% Approximate Gamma UCL	0.237		
95% Adjusted Gamma UCL	0.259		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.61
ult or 1/2 SDL (fluorene)	446-441, 147-441, 147-441, 147-441, 147-441, 147-441, 147-441, 147-441, 147-441, 147-441, 147-441, 147-441, 14		
	General St	atistics	
Number of Valid Samples	16	Number of Unique Samples	15
Raw Statistics		Log-transformed Statistics	
Minimum	0.006	Minimum of Log Data	-5.116
Maximum	0.046	Maximum of Log Data	-3.079
Mean	0.0122	Mean of log Data	-4.65
Median	0.0073	SD of log Data	0.63
SD	0.0111		
Coefficient of Variation	0.916		
Skewness	2.347		
R	lelevant UCL	. Statistics	La transcriber de la constitución de la constitució
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.612	Shapiro Wilk Test Statistic	0.73
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.88
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.017	95% H-UCL	0.01
95% UCLs (Adjusted for Skewness)	0.0405	95% Chebyshev (MVUE) UCL	0.0
95% Adjusted-CLT UCL	0.0185	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	0.02
95% Modified-t UCL	0.0173	99% Chebyshev (MVDE) OCL	0.03
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.859	Data do not follow a Discernable Distribution (0.05	i)
Theta Star	0.0065		
nu star	59.5		
Approximate Chi Square Value (.05)	42.76	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	0.0
Adjusted Chi Square Value	41.15	95% Jackknife UCL	0.0
		95% Standard Bootstrap UCL	0.0
Anderson-Darling Test Statistic	2.153	95% Bootstrap-t UCL	0.02
Anderson-Darling 5% Critical Value	0.749	95% Hall's Bootstrap UCL	0.0
Kolmogorov-Smirnov Test Statistic	0.349	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.218	95% BCA Bootstrap UCL	0.0
Data not Gamma Distributed at 5% Significance Le	vei	95% Chebyshev(Mean, Sd) UCL	0.02
Assuming Gamma Distribution		97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL	0.0
Assuming Gamma Distribution 95% Approximate Gamma UCL	0.0169	99% Chebysnev(Mean, 5d) UCL	U.U.
95% Adjusted Gamma UCL	0.0169		***************************************
			nder og sed i trep sede _s en i
	LL	Use 95% Chebyshev (Mean, Sd) UCL	0.02

lt or 1/2 SDL (gamma-chlordane)			
	General	Statistics	
Number of Valid Sample	s 16	Number of Unique Samples	14
Raw Statistics	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Log-transformed Statistics	***************************************
	n 1.5950E-4	Log-dansionned Statistics Minimum of Log Data	-8.743
	n 8.2600E-4	Maximum of Log Data	-7.099
	1 3.1319E-4	Mean of log Data	-8.275
	n 1.9550E-4	SD of log Data	0.61
	2.3598E-4		
Coefficient of Variation			·
Skewnes			+++,1-,1 ₂ ,1 ₂ ,1 ₃
Normal Distribution Test	Relevant UC	CL Statistics Lognormal Distribution Test	
Shapiro Wilk Test Statisti	0.664	Shapiro Wilk Test Statistic	0.71
Shapiro Wilk Critical Value	1	Shapiro Wilk Critical Value	0.71
Data not Normal at 5% Significance Level	0.007	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCI	4.1661E-4	95% H-UCL	4.3515E
95% UCLs (Adjusted for Skewness)	***************************************	95% Chebyshev (MVUE) UCL	5.1626E
95% Adjusted-CLT UCI	4.3152E-4	97.5% Chebyshev (MVUE) UCL	
95% Modified-t UCI	4.1993E-4	99% Chebyshev (MVUE) UCL	7.8909E
Gamma Distribution Test		Data Distribution	er i eres e des l'écolès en les rédérales
k star (bias corrected) 2.133	Data do not follow a Discernable Distribution (0.0	5)
	r 1.4684E-4		
nu sta			
Approximate Chi Square Value (.05		Nonparametric Statistics	
Adjusted Level of Significance	Í	95% CLT UCL	4.1022E
Adjusted Chi Square Value		95% Jackknife UCL	
		95% Standard Bootstrap UCL	4.0927E
Anderson-Darling Test Statistic	2.341	95% Bootstrap-t UCL	4.9207E
Anderson-Darling 5% Critical Value	0.747	95% Hall's Bootstrap UCL	3.9193E
Kolmogorov-Smirnov Test Statistic	0.362	95% Percentile Bootstrap UCL	4.1500E
Kolmogorov-Smirnov 5% Critical Value	0.217	95% BCA Bootstrap UCL	4.2356E
Data not Gamma Distributed at 5% Significance I	_evel	95% Chebyshev(Mean, Sd) UCL	5.7034E
		97.5% Chebyshev(Mean, Sd) UCL	6.8160E
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	9.0017E
95% Approximate Gamma UCL	4.2550E-4		
95% Adjusted Gamma UCI	4.4092E-4		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	5.7034E

Number of Valid Samples	16	Number of Unique Samples	14
Raw Statistics		Log-transformed Statistics	
Minimum	0.0075	Minimum of Log Data	-4.893
Maximum	0.0319	Maximum of Log Data	-3.445
Mean	0.01	Mean of log Data	-4.686
Median	0.0081	SD of log Data	0.35
SD	0.0059		
Coefficient of Variation	0.593		
Skewness	3.745		***************************************
	Relevant UC		
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.433	Shapiro Wilk Test Statistic	0.57
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.88
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	······································
95% Student's-t UCL	0.0126	95% H-UCL	0.01
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.01
95% Adjusted-CLT UCL	0.014	97.5% Chebyshev (MVUE) UCL	0.01
95% Modified-t UCL	0.0129	99% Chebyshev (MVUE) UCL	0.01
Gamma Distribution Test		Data Distribution	······································
k star (bias corrected)	5.058	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.0019		
nu star	161.9		w.up-w-v.u.u.w.w.
Approximate Chi Square Value (.05)	133.4	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	0.01
Adjusted Chi Square Value	130.5	95% Jackknife UCL	0.01
		95% Standard Bootstrap UCL	0.01
Anderson-Darling Test Statistic	2.793	95% Bootstrap-t UCL	0.02
Anderson-Darling 5% Critical Value	0.741	95% Hall's Bootstrap UCL	0.02
Kolmogorov-Smirnov Test Statistic	0.307	95% Percentile Bootstrap UCL	0.02
Kolmogorov-Smirnov 1est Statistic	0.216	95% BCA Bootstrap UCL	0.01
Data not Gamma Distributed at 5% Significance Le	L	95% Chebyshev(Mean, Sd) UCL	0.01
Data not Gamma Distributed at 3% Significance Le	.vei	97.5% Chebyshev(Mean, Sd) UCL	0.01
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.01
_	0.0100	99% Chebyshev(Weah, Sd) UCL	U.UZ
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.0122 0.0124		doposana de la constante de la constante de la constante de la constante de la constante de la constante de la
			·
Potential UCL to Use	-	Use 95% Student's-t UCL	0.01
		or 95% Modified-t UCL	0.01
sult or 1/2 SDL (indeno(1,2,3-cd)pyrene)			
	General S	tatistics	Person 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971
Number of Valid Samples	16	Number of Unique Samples	16
Raw Statistics		Log-transformed Statistics	, 1842 gaza i 1.200 (1.11 km) 1440 (141 km)
	i	-38	

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Skewness	1.341		
	Relevant UCL	Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.873	Shapiro Wilk Test Statistic	0.94
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.88
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve)
Assuming Normal Distribution		Assuming Lognormal Distribution	ranaca santitrir ras rata
95% Student's-t UCL	15782	95% H-UCL	16280
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	19078
95% Adjusted-CLT UCL	16129	97.5% Chebyshev (MVUE) UCL	21568
95% Modified-t UCL	1	99% Chebyshev (MVUE) UCL	26460
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	5.759	Data appear Gamma Distributed at 5% Significance	Level
Theta Star			
nu star			
Approximate Chi Square Value (.05)	153.9	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	-	15632
Adjusted Chi Square Value	1	P VINTE OF THE PARTY OF THE PAR	15782
		95% Standard Bootstrap UCL	15544
Anderson-Darling Test Statistic	0.495	·	16816
Anderson-Darling 5% Critical Value	0.74	95% Hall's Bootstrap UCL	18440
Kolmogorov-Smirnov Test Statistic	L	95% Percentile Bootstrap UCL	15673
Kolmogorov-Smirnov 5% Critical Value	0.136	95% BCA Bootstrap UCL	16268
Data appear Gamma Distributed at 5% Significance	<u> </u>	95% Chebyshev(Mean, Sd) UCL	19395
	1		22010
Assuming Gamma Distribution			27146
95% Approximate Gamma UCL	15989		
95% Adjusted Gamma UCL	l		na na ramana na trata de mentral a
Potential UCL to Use		Use 95% Approximate Gamma UCL	15989
sult or 1/2 SDL (isopropylbenzene (cumene))			
	General St	atistics	
Number of Valid Samples	16	Number of Unique Samples	16
Raw Statistics)	Log-transformed Statistics	
Minimum	1.2400E-4	Minimum of Log Data	-8.99
Maximum	0.0070	Maximum of Log Data	-4.95
Mean	0.0010	Mean of log Data	-7.84
	2.4000E-4	SD of log Data	1.19
SD	0.0019		
Coefficient of Variation	1.926		
Skewness	2.71		
	Relevant UCL	Statistics	en-desp-designative by treative
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.493	Shapiro Wilk Test Statistic	0.80

	B-5400 10 75		Autorio (*)
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.887
Data not Normal at 5% Significance Level	0.007	Data not Lognormal at 5% Significance Level	0.007
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0018	95% H-UCL	0.002
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.001
95% Adjusted-CLT UCL	0.0021	97.5% Chebyshev (MVUE) UCL	0.002
95% Modified-t UCL	0.0019	99% Chebyshev (MVUE) UCL	0.003
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.566	Data do not follow a Discernable Distribution (0.08	5)
Theta Star	0.0017		
nu star	18.12		· · · · · · · · · · · · · · · · · · ·
Approximate Chi Square Value (.05)	9.479	Nonparametric Statistics	#100 H1 14 W1 14 W1 14 W1 14 W1
Adjusted Level of Significance	0.0335	95% CLT UCL	0.001
Adjusted Chi Square Value	8.774	95% Jackknife UCL	0.001
		95% Standard Bootstrap UCL	0.001
Anderson-Darling Test Statistic	2.176	95% Bootstrap-t UCL	0.008
Anderson-Darling 5% Critical Value	0.784	95% Hall's Bootstrap UCL	0.008
Kolmogorov-Smirnov Test Statistic	0.361	95% Percentile Bootstrap UCL	0.001
Kolmogorov-Smirnov 5% Critical Value	0.225	95% BCA Bootstrap UCL	0.002
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.003
		97.5% Chebyshev(Mean, Sd) UCL	0.004
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.005
95% Approximate Gamma UCL	0.0019		
95% Adjusted Gamma UCL	0.0020		·
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.005
esult or 1/2 SDL (lead)			
	General S	tatistics	
Number of Valid Samples	16	Number of Unique Samples	16
Raw Statistics		Log-transformed Statistics	
Minimum	5	Minimum of Log Data	1.609
Maximum	32.3	Maximum of Log Data	3.475
Mean	11.56	Mean of log Data	2.311
Median	10.03	SD of log Data	0.512
SD	7.161		
Coefficient of Variation	0.62		
Skewness	2.013		
	elektronomien (1900 elektronomien kantan kantan (1900 elektronomien (1900 elektronomien (1900 elektronomien (1		
	Relevant UC		
Normal Distribution Test	<u> </u>	Lognormal Distribution Test	*****
Shapiro Wilk Test Statistic	0.774	Shapiro Wilk Test Statistic	0.939
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.887
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	14.69	95% H-UCL	15.11

95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	17.9
95% Adjusted-CLT UCL	15.46	97.5% Chebyshev (MVUE) UCL	20.7
95% Modified-t UCL	14.84	99% Chebyshev (MVUE) UCL	26.3
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	3.16	Data appear Gamma Distributed at 5% Significance I	Level
Theta Star	3.657		
nu star	101.1		
Approximate Chi Square Value (.05)	78.92	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	14.5
Adjusted Chi Square Value	76.69	95% Jackknife UCL	14.6
		95% Standard Bootstrap UCL	14.4
Anderson-Darling Test Statistic	1. 1.	95% Bootstrap-t UCL	17.8
Anderson-Darling 5% Critical Value	0.742	95% Hall's Bootstrap UCL	31.5
Kolmogorov-Smirnov Test Statistic	1	95% Percentile Bootstrap UCL	14.5
Kolmogorov-Smirnov 5% Critical Value	l	95% BCA Bootstrap UCL	15.6
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	19.3
		97.5% Chebyshev(Mean, Sd) UCL	22.7
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	29.3
95% Approximate Gamma UCL	14.81		
95% Adjusted Gamma UCL	15.24		
Potential UCL to Use		Use 95% Approximate Gamma UCL	14.8
ult or 1/2 SDL (lithium)	General S	statistics	
ult or 1/2 SDL (lithium) Number of Valid Samples	General S	Statistics Number of Unique Samples	15
		Number of Unique Samples	15
Number of Valid Samples	16		
Number of Valid Samples Raw Statistics	16	Number of Unique Samples Log-transformed Statistics	1.8
Number of Valid Samples Raw Statistics Minimum	6.4	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	1.8
Number of Valid Samples Raw Statistics Minimum Maximum	6.4	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	1.8 2.9 2.3
Number of Valid Samples Raw Statistics Minimum Maximum Mean	6.4 20 10.53	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	1.8 2.9 2.3
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	6.4 20 10.53 9.88	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	1.8 2.9 2.3
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	6.4 20 10.53 9.88 3.559	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	1.8 2.9 2.3
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	6.4 20 10.53 9.88 3.559 0.338	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	1.8 2.9 2.3
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	6.4 20 10.53 9.88 3.559 0.338 1.247	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	1.8 2.9 2.3
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	6.4 20 10.53 9.88 3.559 0.338 1.247	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	1.8 2.9 2.3 0.3
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test	6.4 20 10.53 9.88 3.559 0.338 1.247	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test	1.8 2.9 2.3 0.3
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic	6.4 20 10.53 9.88 3.559 0.338 1.247 Relevant UC	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic	1.8 2.9 2.3 0.3 0.9 0.9
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level	6.4 20 10.53 9.88 3.559 0.338 1.247 Relevant UC	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level	1.8 2.9 2.3 0.3 0.9 0.9
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution	6.4 20 10.53 9.88 3.559 0.338 1.247 Relevant UC	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution	1.8 2.9 2.3 0.3
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	6.4 20 10.53 9.88 3.559 0.338 1.247 Relevant UC	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	1.8 2.9 2.3 0.3 0.9 0.8
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	6.4 20 10.53 9.88 3.559 0.338 1.247 Relevant UCI 0.894 0.887	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	1.8 2.9 2.3 0.3 0.9 0.8 12.29
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	6.4 20 10.53 9.88 3.559 0.338 1.247 Relevant UC	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	1.8 2.9 2.3 0.3 0.9 0.8
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	16 6.4 20 10.53 9.88 3.559 0.338 1.247 Relevant UC 0.894 0.887	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	1 1 1

			- 3 - 92 TAX
k star (bias corrected	8.624	Data appear Normal at 5% Significance Level	
Theta Sta			
nu stal	276		
Approximate Chi Square Value (.05	238.5	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	-	12
Adjusted Chi Square Value	234.5	95% Jackknife UCL	12.09
		95% Standard Bootstrap UCL	11.95
Anderson-Darling Test Statistic	0.319	95% Bootstrap-t UCL	12.55
Anderson-Darling 5% Critical Value	0.739	95% Hall's Bootstrap UCL	12.89
Kolmogorov-Smirnov Test Statistic	0.119	95% Percentile Bootstrap UCL	11.96
Kolmogorov-Smirnov 5% Critical Value	0.215	95% BCA Bootstrap UCL	12.23
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	14.41
		97.5% Chebyshev(Mean, Sd) UCL	16.09
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	19.39
95% Approximate Gamma UCL	12.19		M
95% Adjusted Gamma UCL	12.39		
Potential UCL to Use		Use 95% Student's-t UCL	12.09
Result or 1/2 SDL (manganese)			
	······································		
	General S		
Number of Valid Samples	16	Number of Unique Samples	15
Raw Statistics		Log-transformed Statistics	***************************************
Minimum	192	Minimum of Log Data	5.25
Maximum	474	Maximum of Log Data	6.16
Mean	283.3	Mean of log Data	5.60
Median	275	SD of log Data	0.30
SD	87.59		14.11011094VIII(AUIII)
Coefficient of Variation	0.309		
Skewness	0.667		
	Relevant UC	L Statistics	·····
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.889	Shapiro Wilk Test Statistic	0.89
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.88
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	***************************************
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	321.6	95% H-UCL	328.4
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	377.1
95% Adjusted-CLT UCL	323.2	97.5% Chebyshev (MVUE) UCL	417.8
95% Modified-t UCL	322.2	99% Chebyshev (MVUE) UCL	497.7
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	9.583	Data appear Normal at 5% Significance Level	
Theta Star	29.56	arrana a on oldunano read	
nu star	306.7		
Approximate Chi Square Value (.05)			***************************************
Approximate Citi Square Value (.03)	267.1	Nonparametric Statistics	

	\$243445.2514,-0		
Adjusted Chi Square Value	262.9	95% Jackknife UCL	321,6
		95% Standard Bootstrap UCL	318.6
Anderson-Darling Test Statistic	0.707	95% Bootstrap-t UCL	324.1
Anderson-Darling 5% Critical Value	0.739	95% Hall's Bootstrap UCL	322.7
Kolmogorov-Smirnov Test Statistic	0.733	95% Percentile Bootstrap UCL	319.3
Kolmogorov-Smirnov 5% Critical Value	0.208	95% BCA Bootstrap UCL	322.1
Data appear Gamma Distributed at 5% Significance		95% Chebyshev(Mean, Sd) UCL	378.7
Data appear Gamma Distributed at 5% Significance	revei	97.5% Chebyshev(Mean, Sd) UCL	420
Accomplian Comman Distribution		97.3% Chebyshev(Mean, Sd) UCL	501.1
Assuming Gamma Distribution	205.0	99% Chebyshev (Mean, Su) OCL	30 I. I
95% Approximate Gamma UCL	325.2		
95% Adjusted Gamma UCL	330.4		
Potential UCL to Use		Use 95% Student's-t UCL	321.6
esult or 1/2 SDL (mercury)	General S	Statistics Number of Unique Samples	1,3
Number of Valid Samples	10		
Raw Statistics		Log-transformed Statistics	
Minimum	0.011	Minimum of Log Data	-4.51
Maximum	0.036	Maximum of Log Data	-3.324
Mean	0.0201	Mean of log Data	-3.972
Median	0.02	SD of log Data	0.367
SD	0.0073		
Coefficient of Variation	0.368		
Skewness	0.618		***************************************
	Relevant UC	CL Statistics	***************************************
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.929	Shapiro Wilk Test Statistic	0.94
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.88
Data appear Normal at 5% Significance Level	***************************************	Data appear Lognormal at 5% Significance Leve	}
			1411,1441,1411,1411,1411,1411,1411,141
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0233	95% H-UCL	0.024
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.02
95% Adjusted-CLT UCL	0.0234	97.5% Chebyshev (MVUE) UCL	0.03
95% Modified-t UCL	0.0233	99% Chebyshev (MVUE) UCL	0.03
	14 = 114 = 1 14 17 17 17 17 17 17 17 17 17 17 17 17 17		
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	6.623	Data appear Normal at 5% Significance Level	
Theta Star	0.0030		
· nu star	211.9		
Approximate Chi Square Value (.05)	179.2	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	0.02
Adjusted Chi Square Value	175.8	95% Jackknife UCL	0.02
		95% Standard Bootstrap UCL	0.02
Anderson-Darling Test Statistic	0.386	95% Bootstrap-t UCL	0.02
Anderson-Darling 5% Critical Value	0.74	95% Hall's Bootstrap UCL	0.02
Kolmogorov-Smirnov Test Statistic	0.149	95% Percentile Bootstrap UCL	0.02

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Kolmogorov-Smirnov 5% Critical Value	0.215	95% BCA Bootstrap UCL	0.023
Data appear Gamma Distributed at 5% Significance	<u> </u>	95% Chebyshev(Mean, Sd) UCL	0.028
	1	97.5% Chebyshev(Mean, Sd) UCL	0.031
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.038
95% Approximate Gamma UCL	0.0237	oo o chosy cho (modify out)	
95% Adjusted Gamma UCL	0.0237		the second section is the second
Potential UCL to Use		Use 95% Student's-t UCL	0.023
esult or 1/2 SDL (methylcyclohexane)			. Organization of the second
	General S	Statistics	
Number of Valid Samples		Number of Unique Samples	16
Raw Statistics		Log-transformed Statistics	
	2.9950E-4	Minimum of Log Data	-8.113
Maximum	0.0037	Maximum of Log Data	-5.599
	9.5050E-4	Mean of log Data	-7.232
	5.8250E-4	SD of log Data	0.724
	8.5690E-4		
Coefficient of Variation	0.902		
Skewness	2.396		
	THE RESERVE THE PROPERTY OF TH		
Normal Distribution Test	Relevant UC	L Statistics Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.699	Shapiro Wilk Test Statistic	0.898
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.887
Data not Normal at 5% Significance Level	0.007	Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0013	95% H-UCL	0.001
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.001
95% Adjusted-CLT UCL	0.0014	97.5% Chebyshev (MVUE) UCL	0.002
95% Modified-t UCL	0.0013	99% Chebyshev (MVUE) UCL	0.002
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.649	Data Follow Appr. Gamma Distribution at 5% Significance	e Level
Theta Star	5.7638E-4		***************************************
nu star	52.77		
Approximate Chi Square Value (.05)	37.08	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	0.001
Adjusted Chi Square Value	35.59	95% Jackknife UCL	0.001
		95% Standard Bootstrap UCL	0.001
Anderson-Darling Test Statistic	0.885	95% Bootstrap-t UCL	0.001
Anderson-Darling 5% Critical Value	0.75	95% Hall's Bootstrap UCL	0.002
Kolmogorov-Smirnov Test Statistic	0.208	95% Percentile Bootstrap UCL	0.001
Kolmogorov-Smirnov 5% Critical Value	0.218	95% BCA Bootstrap UCL	0.001
Data follow Appr. Gamma Distribution at 5% Significan		95% Chebyshev(Mean, Sd) UCL	0.001
True			
		97.5% Chebyshev(Mean, Sd) UCI	0.002
Assuming Gamma Distribution		97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL	0.002

	Use 95% Approximate Gamma UCL	0.001
General St	atistics	
16	Number of Unique Samples	15
***************************************	Log-transformed Statistics	
0.14	Minimum of Log Data	-1.966
5.66	Maximum of Log Data	1.73
0.667	Mean of log Data	-1.108
0.24	SD of log Data	0.95
1.358	7	
		~~
3.761		ft) \$ - \$p\ph-sp-sp-sp-sp-sp-
Relevant UCL	Statistics	
	Lognormal Distribution Test	
0.407	Shapiro Wilk Test Statistic	0.77
0.887	Shapiro Wilk Critical Value	0.88
	Data not Lognormal at 5% Significance Level	
	Assuming Lognormal Distribution	
1 262		0.99
		1.06
1.566		1.30
1.315	99% Chebyshev (MVUE) UCL	1.78
0.704		
	Data do not follow a Discernable Distribution (0.05)
13.21	Nonparametric Statistics	mana ra garanga
0.0335	95% CLT UCL	1.22
12.36	95% Jackknife UCL	1.26
	95% Standard Bootstrap UCL	1.20
2.348	95% Bootstrap-t UCL	4.4
0.771	95% Hall's Bootstrap UCL	3.29
0.318	95% Percentile Bootstrap UCL	1.30
0.222	95% BCA Bootstrap UCL	1.68
	95% Chebyshev(Mean, Sd) UCL	2.14
evel		
evel	97.5% Chebyshev(Mean, Sd) UCL	2.78
evel		d to mate to a constitution on the
1.169	97.5% Chebyshev(Mean, Sd) UCL	2.78 4.04
	97.5% Chebyshev(Mean, Sd) UCL	d to mate to a constitution on the
	16 0.14 5.66 0.667 0.24 1.358 2.036 3.761 Relevant UCL 0.407 0.887 1.262 1.566 1.315 0.724 0.922 23.15 13.21 0.0335 12.36 2.348 0.771	Log-transformed Statistics

araturana. Milatira matamana da ang menunggunggunggunggunggunggunggunggunggun	General	Statistics	
Number of Valid Samples		Number of Unique Samples	15
Raw Statistics		Log-transformed Statistics	
Minimum	5.8	Minimum of Log Data	1.75
Maximum	16.7	Maximum of Log Data	2.81
Mean	9.589	Mean of log Data	2.22
Median	9.93	SD of log Data	0.28
SD	2.741		
Coefficient of Variation	0.286		
Skewness	0.821		
	Relevant U	CL Statistics	magazaga ti ti ti ta safata
Normal Distribution Test	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Lognormal Distribution Test	And and Committee to the Personal Committee of
Shapiro Wilk Test Statistic	1	Shapiro Wilk Test Statistic	0.92
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.88
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	10.79	95% H-UCL	11.02
95% UCLs (Adjusted for Skewness)	£	95% Chebyshev (MVUE) UCL	12.58
95% Adjusted-CLT UCL	10.87	97.5% Chebyshev (MVUE) UCL	13.88
95% Modified-t UCL	10.81	99% Chebyshev (MVUE) UCL	16.42
Gamma Distribution Test	ti Pagland a dinglan garda libertar - timbo a pinda a Paglinang naglan ang kanghi	Data Distribution	
k star (bias corrected)	11.02	Data appear Normal at 5% Significance Level	#1.10/41/2010/04/doi.
Theta Star	0.87		
nu star	352.6		
Approximate Chi Square Value (.05)	310.1	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	10.72
Adjusted Chi Square Value	305.5	95% Jackknife UCL	10.79
		95% Standard Bootstrap UCL	10.7
Anderson-Darling Test Statistic	0.57	95% Bootstrap-t UCL	10.95
Anderson-Darling 5% Critical Value	0.738	95% Hall's Bootstrap UCL	11.23
Kolmogorov-Smirnov Test Statistic	0.205	95% Percentile Bootstrap UCL	10.69
Kolmogorov-Smirnov 5% Critical Value	0.215	95% BCA Bootstrap UCL	10.77
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	12.58
		97.5% Chebyshev(Mean, Sd) UCL	13.87
Assuming Gamma Distribution	Forgrammer and the Principle of the Prin	99% Chebyshev(Mean, Sd) UCL	16.41
95% Approximate Gamma UCL	10.9		name of the section o
95% Adjusted Gamma UCL	11.07		destination to the female section
Potential UCL to Use		Use 95% Student's-t UCL	10.79
esult or 1/2 SDL (n-nitrosodiphenylamine)			
	General	Statistics	
	,		
Number of Valid Samples	16	Number of Unique Samples	14

Raw Statistics		Log-transformed Statistics	
Minimum	0.0069		-4.969
Maximum	0.0434		-3.137
Mean	0.0102		-4.738
Median	0.0075	Commission of the Commission o	0.446
SD	0.0089		
Coefficient of Variation	0.879		
Skewness	3.902		mana . aan Historia Historia Algas Cales
F	Relevant U	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.369	Shapiro Wilk Test Statistic	0.514
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.887
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	No. office age of a special content of a state of the special content of a special content of the special content	Assuming Lognormal Distribution	MENTAL BUTTON BUTTON BUTTON BUTTON
95% Student's-t UCL	0.0141	95% H-UCL	0.0122
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0144
95% Adjusted-CLT UCL	0.0162	97.5% Chebyshev (MVUE) UCL	0.0165
95% Modified-t UCL	0.0144	99% Chebyshev (MVUE) UCL	0.0205
Gamma Distribution Test		Data Distribution	-1
k star (bias corrected)	2.914	Data do not follow a Discernable Distribution (0.05	>)
Theta Star	0.0034		
nu star	93.24		· · · · · · · · · · · · · · · · · · ·
Approximate Chi Square Value (.05)	71.97	Nonparametric Statistics	
Adjusted Level of Significance	0.0335		0.0138
Adjusted Chi Square Value	69.85	95% Jackknife UCL	0.0141
		95% Standard Bootstrap UCL	0.0137
Anderson-Darling Test Statistic	3.455	95% Bootstrap-t UCL	0.0353
Anderson-Darling 5% Critical Value	0.743	95% Hall's Bootstrap UCL	0.0281
Kolmogorov-Smirnov Test Statistic	0.374	95% Percentile Bootstrap UCL	0.0145
Kolmogorov-Smirnov 5% Critical Value	0.216	95% BCA Bootstrap UCL	0.017
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.0199
		97.5% Chebyshev(Mean, Sd) UCL	0.0241
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0324
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.0132 0.0136		the species of the second species of the sec
30 % Adjusted Gaillina OCL	0.0130		
Potential UCL to Use		Use 95% Student's-t UCL	0.0141
		or 95% Modified-t UCL	0.0144
			his of mile 4 ph and a property and
Result or 1/2 SDL (phenanthrene)	A. 146-876-1111111111111111111111111111111111		
	General		
Number of Valid Samples	16	Number of Unique Samples	15
Raw Statistics		Log-transformed Statistics	and the state and the state of
Minimum	0.0076		-4.88
Maximum	0.508	Maximum of Log Data	-0.677
Mean	0.0746	_	-3.548

Relevant UCL Statistics				
Relevant UCL Statistics	we was an explained on the second product of the second participation of the second pa	0.021	SD of log Data	1.383
Relevant UCL Statistics	SD	0.126		***************************************
Relevant UCL Statistics	Coefficient of Variation	1.691		
Normal Distribution Test	Skewness	3.037		
Normal Distribution Test				
Shapiro Wilk Test Statistic 0.583		Relevant U		
Shapiro Wilk Critical Value 0.887		U E03		0.05
Data not Normal at 5% Significance Level				
Assuming Normal Distribution		0.887		U.88
95% Student's-t UCL	Data not Normal at 5% Significance Level	(p. 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 .	Data not Lognormal at 5% Significance Level	
95% Student's-t UCL	Assuming Normal Distribution		Assuming Lognormal Distribution	***************************************
95% UCLs (Adjusted for Skewness) 95% Chebyshev (MVUE) UCL 95% Adjusted-CLT UCL 95% Modified-t UCL 95% Modifi	_	N 13		0.24
95% Adjusted-CLT UCL 95% Modified-t UCL 0.134 99% Chebyshev (MVUE) UCL 0.3 Gamma Distribution Test Data Distribution K star (bias corrected) 0.564 Data do not follow a Discernable Distribution (0.05) Theta Star 0.132 nu star 18.03 Approximate Chi Square Value (.05) 9.415 Nonparametric Statistics Adjusted Level of Significance 0.0335 95% CLT UCL 0.13 Adjusted Chi Square Value 8.713 95% Standard Bootstrap UCL 0.13 Anderson-Darling Test Statistic 1.118 95% Standard Bootstrap UCL 0.13 Anderson-Darling 5% Critical Value 0.784 95% Hall's Bootstrap UCL 0.13 Kolmogorov-Smirnov Test Statistic 0.267 95% Percentile Bootstrap UCL 0.13 Kolmogorov-Smirnov 5% Critical Value 0.225 95% BCA Bootstrap UCL 0.15 Data not Gamma Distributed at 5% Significance Level 97.5% Chebyshev(Mean, Sd) UCL 0.2 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.2 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.3 95% Adjusted Gamma UCL 0.143 Potential UCL to Use Use 99% Chebyshev (Mean, Sd) UCL 0.3 General Statistics Number of Valid Samples 16 Number of Unique Samples 16 Raw Statistics Log-transformed Statistics	and the state of t	0.10		****************
95% Modified-t UCL		0 152		
Gamma Distribution Test Restar (bias corrected)				
Raw Statistics Data do not follow a Discernable Distribution (0.05) Theta Star	93% Mounted-LOCE	U. 134	99% Chebysilev (MVOE) OCL	U.33 ²
Theta Star 0.132 nu star 18.03	Gamma Distribution Test	en marine de consentation de la	Data Distribution	
Nonparametric Statistics	k star (bias corrected)	0.564	Data do not follow a Discernable Distribution (0.05)
Approximate Chi Square Value (.05) 9.415 Nonparametric Statistics	Theta Star	0.132		
Adjusted Level of Significance 0.0335 95% CLT UCL 0.11 Adjusted Chi Square Value 8.713 95% Jackknife UCL 0.11 Addreson-Darling Test Statistic 1.118 95% Standard Bootstrap UCL 0.12 Anderson-Darling 5% Critical Value 0.784 95% Hall's Bootstrap UCL 0.33 Kolmogorov-Smirnov Test Statistic 0.267 95% Percentile Bootstrap UCL 0.13 Kolmogorov-Smirnov 5% Critical Value 0.225 95% BCA Bootstrap UCL 0.13 Color Spring	nu star	18.03		
Adjusted Chi Square Value 8.713 95% Jackknife UCL 0.1: 95% Standard Bootstrap UCL 0.1: Anderson-Darling Test Statistic 1.118 95% Bootstrap-t UCL 0.2: Anderson-Darling 5% Critical Value 0.784 95% Hall's Bootstrap UCL 0.3: Kolmogorov-Smirnov Test Statistic 0.267 95% Percentile Bootstrap UCL 0.1: Kolmogorov-Smirnov 5% Critical Value 0.225 95% BCA Bootstrap UCL 0.1: Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 0.2: Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.2: Assuming Gamma UCL 0.143 95% Adjusted Gamma UCL 0.154 Potential UCL to Use Use 99% Chebyshev (Mean, Sd) UCL 0.3: esult or 1/2 SDL (pyrene) General Statistics Number of Valid Samples 16 Number of Unique Samples 16 Raw Statistics Log-transformed Statistics	Approximate Chi Square Value (.05)	9.415	Nonparametric Statistics	***************************************
Anderson-Darling Test Statistic Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Anderson-Darling 5% Critical Value O.784 Anderson-Darling 5% Critical Value O.784 Solmogorov-Smirnov Test Statistic O.267 Solmogorov-Smirnov 5% Critical Value O.225 Solmogorov-Smirnov 5% Critical Value O.225 Solmogorov-Smirnov 5% Critical Value O.225 Solmogorov-Smirnov 5% Critical Value O.225 Solmogorov-Smirnov 5% Critical Value O.225 Solmogorov-Smirnov 5% Critical Value O.225 Solmogorov-Smirnov 5% Critical Value O.225 Solmogorov-Smirnov 5% Critical Value O.225 Solmogorov-Smirnov 5% Critical Value O.225 Solmogorov-Smirnov 5% Critical Value O.225 Solmogorov-Smirnov 5% Critical Value O.225 Solmogorov-Smirnov 5% Critical Value O.225 Solmogorov-Smirnov 5% Critical Value O.225 Solmogorov-Smirnov 5% Critical Value O.255 Solmogorov-Smirnov 5% Critical Value O.267 Solmogorov-Smirnov 5% Critical Value O.255 Solmogorov-Smirnov 5% Critical Value O.267 Solmogorov-Smirnov 5% Critical Value O.255 Solmogorov-Smirnov 5% Critical Value O.255 Solmogorov-Smirnov 5% Critical Value O.267 Solmogorov-Smirnov 5% Critical Value O.255 Solmogorov-Smirnov 5% Critical Value O.255 Solmogorov-Smirnov 5% Critical Value O.267 Solmogorov-Smirnov 5% Critical Value O.267 Solmogorov-Smirnov 5% Critical Value O.267 Solmogorov-Smirnov 5% Critical Value O.267 Solmogorov-Smirnov 5% Critical Value O.267 Solmogorov-Smirnov 5% Critical Value O.267 Solmogorov-Smirnov 5% Critical Value O.267 Solmogorov-Smirnov 5% Critical Value O.267 Solmogorov-Smirnov 5% Critical Value O.267 Solmogorov-Smirnov 5% Critical Value O.267 Solmogorov-Smirnov 5% Critical Value O.27 Solmogorov-Smirnov 5% Critical Value O.28 Solmogorov-Smirnov 5% Critical Value O.29 Solmogorov-Smirnov 5% Critical Value O.29 Solmogorov-Smirnov 5% Critical Value O.29 Solmogorov-Smirnov 5% Critical Value O.29 Solmogorov-Smirnov 5% Critical Value O.29 Solmogorov-Smirnov 5% Critical Value O.29 Solmogorov-Smirnov 5% Critical Value O.29 Solmogorov-Smirnov 5% Critical Value O.29 Solmogorov 5% Chebyshev (Mean	Adjusted Level of Significance	0.0335	95% CLT UCL	0.12
Anderson-Darling Test Statistic 1.118 95% Bootstrap-t UCL 0.21 Anderson-Darling 5% Critical Value 0.784 95% Hall's Bootstrap UCL 0.31 Kolmogorov-Smirnov Test Statistic 0.267 95% Percentile Bootstrap UCL 0.13 Kolmogorov-Smirnov 5% Critical Value 0.225 95% BCA Bootstrap UCL 0.15 Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 0.22 Assuming Gamma Distribution 97.5% Chebyshev(Mean, Sd) UCL 0.23 95% Approximate Gamma UCL 0.143 95% Adjusted Gamma UCL 0.154 Potential UCL to Use Use 99% Chebyshev (Mean, Sd) UCL 0.33 Besult or 1/2 SDL (pyrene) General Statistics Number of Valid Samples 16 Number of Unique Samples 16 Raw Statistics Log-transformed Statistics	Adjusted Chi Square Value	8.713	95% Jackknife UCL	0.13
Anderson-Darling 5% Critical Value			95% Standard Bootstrap UCL	0.126
Kolmogorov-Smirnov Test Statistic 0.267 95% Percentile Bootstrap UCL 0.11	Anderson-Darling Test Statistic	1.118	95% Bootstrap-t UCL	0.204
Kolmogorov-Smirnov 5% Critical Value 0.225 95% BCA Bootstrap UCL 0.10 Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 0.20 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.30 95% Approximate Gamma UCL 0.143 95% Adjusted Gamma UCL 0.154 Potential UCL to Use Use 99% Chebyshev (Mean, Sd) UCL 0.30 General Statistics Number of Valid Samples 16 Number of Unique Samples 16 Raw Statistics Log-transformed Statistics	Anderson-Darling 5% Critical Value	0.784	95% Hall's Bootstrap UCL	0.315
Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 0.2 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.3 95% Approximate Gamma UCL 0.143 95% Adjusted Gamma UCL 0.154 Potential UCL to Use Use 99% Chebyshev (Mean, Sd) UCL 0.3 General Statistics Number of Valid Samples 16 Number of Unique Samples 16 Raw Statistics Log-transformed Statistics	Kolmogorov-Smirnov Test Statistic	0.267	95% Percentile Bootstrap UCL	0.133
Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 95% Approximate Gamma UCL 95% Adjusted Gamma UCL 0.143 Potential UCL to Use Use 99% Chebyshev (Mean, Sd) UCL 0.38 Potential UCL to Use Use 99% Chebyshev (Mean, Sd) UCL 0.38 Potential UCL to Use Use 99% Chebyshev (Mean, Sd) UCL 0.38 Potential UCL to Use Use 99% Chebyshev (Mean, Sd) UCL 0.38 Potential UCL to Use Use 99% Chebyshev (Mean, Sd) UCL 0.38 Potential UCL to Use Use 99% Chebyshev (Mean, Sd) UCL 0.38 Potential UCL to Use Use 99% Chebyshev (Mean, Sd) UCL 0.38 Potential UCL to Use Use 99% Chebyshev (Mean, Sd) UCL 0.38 Potential UCL to Use Use 99% Chebyshev (Mean, Sd) UCL 0.38 Potential UCL to Use Use 99% Chebyshev (Mean, Sd) UCL 0.48 Potential UCL to Use Number of Unique Samples Use 99% Chebyshev (Mea	Kolmogorov-Smirnov 5% Critical Value	0.225	95% BCA Bootstrap UCL	0.16
Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 95% Approximate Gamma UCL 95% Adjusted Gamma UCL 0.154 Potential UCL to Use Use 99% Chebyshev (Mean, Sd) UCL 0.38 Potential UCL to Use General Statistics Number of Valid Samples 16 Number of Unique Samples 16 Raw Statistics Log-transformed Statistics	Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.212
95% Approximate Gamma UCL 0.143 95% Adjusted Gamma UCL 0.154 Potential UCL to Use Use 99% Chebyshev (Mean, Sd) UCL 0.38 esult or 1/2 SDL (pyrene) General Statistics Number of Valid Samples 16 Number of Unique Samples 16 Raw Statistics Log-transformed Statistics			97.5% Chebyshev(Mean, Sd) UCL	0.272
Potential UCL to Use Use 99% Chebyshev (Mean, Sd) UCL 0.38 esult or 1/2 SDL (pyrene) General Statistics Number of Valid Samples 16 Number of Unique Samples 16 Raw Statistics Log-transformed Statistics	Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.388
Potential UCL to Use Use 99% Chebyshev (Mean, Sd) UCL 0.38 esult or 1/2 SDL (pyrene) General Statistics Number of Valid Samples 16 Number of Unique Samples 16 Raw Statistics Log-transformed Statistics	95% Approximate Gamma UCL	0.143		
esult or 1/2 SDL (pyrene) General Statistics Number of Valid Samples 16 Number of Unique Samples 16 Raw Statistics Log-transformed Statistics	95% Adjusted Gamma UCL	0.154		
esult or 1/2 SDL (pyrene) General Statistics Number of Valid Samples 16 Number of Unique Samples 16 Raw Statistics Log-transformed Statistics				
General Statistics Number of Valid Samples 16 Number of Unique Samples 16 Raw Statistics Log-transformed Statistics	Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.388
General Statistics Number of Valid Samples 16 Number of Unique Samples 16 Raw Statistics Log-transformed Statistics				
Number of Valid Samples 16 Number of Unique Samples 16 Raw Statistics Log-transformed Statistics	esult or 1/2 SDL (pyrene)			***************************************
Number of Valid Samples 16 Number of Unique Samples 16 Raw Statistics Log-transformed Statistics		General	Statistics	
	Number of Valid Samples	th Painter towards before the control of		16
	Daw Statistics	······································	Log transformed Statistics	
windiffully 0.0075 willimum of Log Data; -4.92		U UUZ3	1	_/ 02
				-4.92 -0.149
				-3.251
_			SD of log Data	1.632
SD 0.22 Coefficient of Variation 1.697				
Skewness 2.746	Skewness	2.746		r-Marketterower

	\$1. \$14. AZ		
F	Relevant UC	CL Statistics	z predokaliček Sisteletov (CC)
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.617	Shapiro Wilk Test Statistic	0.869
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.887
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.227	95% H-UCL	0.729
95% UCLs (Adjusted for Skewness)	0.22/	95% Chebyshev (MVUE) UCL	0.72
95% Adjusted OF Skewness)	0.261	97.5% Chebyshev (MVUE) UCL	0.49
95% Modified-t UCL	0.233	99% Chebyshev (MVUE) UCL	0.71
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.465	Data do not follow a Discernable Distribution (0.05)
Theta Star	0.279		
nu star	14.89		
Approximate Chi Square Value (.05)	7.184	Nonparametric Statistics	AT LONG THE STATE OF THE STATE
Adjusted Level of Significance	0.0335	95% CLT UCL	0.22
Adjusted Chi Square Value	6.582	95% Jackknife UCL	0.22
		95% Standard Bootstrap UCL	0.21
Anderson-Darling Test Statistic	1.081	95% Bootstrap-t UCL	0.33
Anderson-Darling 5% Critical Value	0.794	95% Hall's Bootstrap UCL	0.54
Kolmogorov-Smirnov Test Statistic	0.241	95% Percentile Bootstrap UCL	0.22
Kolmogorov-Smirnov 5% Critical Value	0.227	95% BCA Bootstrap UCL	0.26
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.37
		97.5% Chebyshev(Mean, Sd) UCL	0.474
Assuming Gamma Distribution	0.000	99% Chebyshev(Mean, Sd) UCL	0.67
95% Approximate Gamma UCL	0.269		nem mereleri liber sayabin
95% Adjusted Gamma UCL	0.294		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.67
esult or 1/2 SDL (silver)			
Number of Valid Samples	General S	Number of Unique Samples	14
Raw Statistics		Log-transformed Statistics	W. W. H. L
Minimum	0.0335	Minimum of Log Data	-3.396
Maximum	0.54	Maximum of Log Data	-0.616
Mean	0.172	Mean of log Data	-2.392
Median	0.0448	SD of log Data	1.16
SD	0.184		er-russalistusees atv
Coefficient of Variation	1.07		
Skewness	0.821		
F	Relevant UC	CL Statistics	and the control of th
Normal Distribution Test	ł	Lognormai Distribution Test	
	0.731	Lognormal Distribution Test Shapiro Wilk Test Statistic	0.729
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.731 0.887	Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.729 0.887

A		A 1- 1 1 1 1 1	
Assuming Normal Distribution 95% Student's-t UCL	0.252	Assuming Lognormal Distribution 95% H-UCL	0.44
95% UCLs (Adjusted for Skewness)	0.252	95% Chebyshev (MVUE) UCL	0.44
95% UCLS (Adjusted for Skewness) 95% Adjusted-CLT UCL	0.257	97.5% Chebyshev (MVUE) UCL	0.40
95% Adjusted-CLT OCL	0.257	99% Chebyshev (MVUE) UCL	0.51
95% Modified-LOCE	0.254	99% Criebysnev (MVOE) OCL	0.71
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.792	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.217		
nu star	25.36	·	
Approximate Chi Square Value (.05)	14.88	Nonparametric Statistics	M144.44
Adjusted Level of Significance	0.0335	95% CLT UCL	0.24
Adjusted Chi Square Value	13.98	95% Jackknife UCL	0.25
		95% Standard Bootstrap UCL	0.24
Anderson-Darling Test Statistic	2.15	95% Bootstrap-t UCL	0.27
Anderson-Darling 5% Critical Value	0.767	95% Hall's Bootstrap UCL	0.24
Kolmogorov-Smirnov Test Statistic	0.368	95% Percentile Bootstrap UCL	0.24
Kolmogorov-Smirnov 5% Critical Value	0.222	95% BCA Bootstrap UCL	0.25
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.37
		97.5% Chebyshev(Mean, Sd) UCL	0.45
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.62
95% Approximate Gamma UCL	0.293		
95% Adjusted Gamma UCL	0.312		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.62
It or 1/2 SDL (strontium)			
	General St		15
It or 1/2 SDL (strontium) Number of Valid Samples	General St	natistics Number of Unique Samples	15
	***************************************		15
Number of Valid Samples	***************************************	Number of Unique Samples	
Number of Valid Samples Raw Statistics	16	Number of Unique Samples Log-transformed Statistics	3.49
Number of Valid Samples Raw Statistics Minimum	32.8 81.7 44.86	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	3.49 4.40
Number of Valid Samples Raw Statistics Minimum Maximum	32.8 81.7 44.86 39.85	Log-transformed Statistics Minimum of Log Data Maximum of Log Data	3.49 4.40 3.76
Number of Valid Samples Raw Statistics Minimum Maximum Mean	32.8 81.7 44.86	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	3.49 4.40 3.76
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	32.8 81.7 44.86 39.85 14.43 0.322	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	3.49 4.40 3.76
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	32.8 81.7 44.86 39.85 14.43	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	3.49 4.40 3.76
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	32.8 81.7 44.86 39.85 14.43 0.322	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	15 3.49 4.40 3.76 0.27
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test	32.8 81.7 44.86 39.85 14.43 0.322 1.805	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test	3.49 4.40 3.76 0.27
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic	32.8 81.7 44.86 39.85 14.43 0.322 1.805	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic	3.49 4.40 3.76 0.27
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	32.8 81.7 44.86 39.85 14.43 0.322 1.805	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	3.49 4.40 3.76 0.27
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic	32.8 81.7 44.86 39.85 14.43 0.322 1.805	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic	3.49 4.40 3.76 0.27
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	32.8 81.7 44.86 39.85 14.43 0.322 1.805	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	3.49 4.40 3.76 0.27
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	32.8 81.7 44.86 39.85 14.43 0.322 1.805	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	3.49 4.40 3.76 0.27

95% Adjusted-CLT UCL			
33 / Aujusteu-CET UCE	52.54	97.5% Chebyshev (MVUE) UCL	63.90
95% Modified-t UCL	51.46	99% Chebyshev (MVUE) UCL	75.39
Gamma Distribution Test	amppi januar	Data Distribution	
k star (bias corrected)	10.61	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	4.23		
nu star	339.4		
Approximate Chi Square Value (.05)	297.7	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	50.8
Adjusted Chi Square Value	293.2	95% Jackknife UCL	51.1
		95% Standard Bootstrap UCL	50.4
Anderson-Darling Test Statistic	1.15	95% Bootstrap-t UCL	57.3
Anderson-Darling 5% Critical Value	0.738	95% Hall's Bootstrap UCL	81.8
Kolmogorov-Smirnov Test Statistic	0.261	95% Percentile Bootstrap UCL	50.6
Kolmogorov-Smirnov 5% Critical Value	0.215	95% BCA Bootstrap UCL	51.9
Data not Gamma Distributed at 5% Significance Lo	evel	95% Chebyshev(Mean, Sd) UCL	60.5
		97.5% Chebyshev(Mean, Sd) UCL	67.4
Assuming Gamma Distribution	E4 44	99% Chebyshev(Mean, Sd) UCL	80.7
95% Approximate Gamma UCL	51.14		
95% Adjusted Gamma UCL	51.92		
Potential UCL to Use	#(/n ************************************	Use 95% Student's-t UCL	51.1
Potential UCL to Use		or 95% Modified-t UCL	51.4

Number of Volid Complex	General S		16
Number of Valid Samples	General S	Statistics Number of Unique Samples	16
Number of Valid Samples Raw Statistics			16
		Number of Unique Samples	
Raw Statistics	16	Number of Unique Samples Log-transformed Statistics	2.9
Raw Statistics Minimum	16	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	2.9 3.6
Raw Statistics Minimum Maximum	16 19.1 36.6	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	2.9 3.6 3.2
Raw Statistics Minimum Maximum Mean	19.1 36.6 25.58	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	2.9 3.6 3.2
Raw Statistics Minimum Maximum Mean Median	19.1 36.6 25.58 23.95	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	2.9 3.6 3.2
Raw Statistics Minimum Maximum Mean Median SD	19.1 36.6 25.58 23.95 5.051	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	16 2.9 3.6 3.2 0.1
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	19.1 36.6 25.58 23.95 5.051 0.198	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	2.9 3.6 3.2
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	19.1 36.6 25.58 23.95 5.051 0.198 1.084	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	2.9 3.6 3.2
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	19.1 36.6 25.58 23.95 5.051 0.198 1.084	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	2.9 3.6 3.2 0.1
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	19.1 36.6 25.58 23.95 5.051 0.198 1.084	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test	2.9 3.6 3.2 0.1
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic	19.1 36.6 25.58 23.95 5.051 0.198 1.084 Relevant UC	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic	2.9 3.6 3.2 0.1 0.9 0.9
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level	19.1 36.6 25.58 23.95 5.051 0.198 1.084 Relevant UC	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level	2.9 3.6 3.2 0.1
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution	19.1 36.6 25.58 23.95 5.051 0.198 1.084 Relevant UC	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution	2.9 3.6 3.2 0.1
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	19.1 36.6 25.58 23.95 5.051 0.198 1.084 Relevant UC	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	2.9 3.6 3.2 0.1 0.9 0.8
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	19.1 19.1 36.6 25.58 23.95 5.051 0.198 1.084 Relevant UC 0.888 0.887	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	2.9 3.6 3.2 0.1 0.9 0.8 27.8 30.7
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	19.1 36.6 25.58 23.95 5.051 0.198 1.084 Relevant UC 0.888 0.887	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	2.9 3.6 3.2 0.1 0.9 0.8 27.8 30.7
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	19.1 19.1 36.6 25.58 23.95 5.051 0.198 1.084 Relevant UC 0.888 0.887	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	2.9 3.6 3.2 0.1 0.9 0.8 27.8 30.7

			der Ginff
k star (bias corrected)	24.34	Data appear Normal at 5% Significance Level	7 20 22
Theta Star	•		
nu star	778.8		***************************************
Approximate Chi Square Value (.05)	715.1	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	27.65
Adjusted Chi Square Value	708.1	95% Jackknife UCL	27.79
	E E	95% Standard Bootstrap UCL	27.65
Anderson-Darling Test Statistic	0.584	95% Bootstrap-t UCL	28.45
Anderson-Darling 5% Critical Value	0.736	95% Hall's Bootstrap UCL	28.66
Kolmogorov-Smirnov Test Statistic	0.202	95% Percentile Bootstrap UCL	27.66
Kolmogorov-Smirnov 5% Critical Value	0.215	95% BCA Bootstrap UCL	27.93
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	31.08
	<u> </u>	97.5% Chebyshev(Mean, Sd) UCL	33.46
Assuming Gamma Distribution	<u> </u>	99% Chebyshev(Mean, Sd) UCL	38.14
95% Approximate Gamma UCL	27.86		· · · · · · · · · · · · · · · · · · ·
95% Adjusted Gamma UCL	28.13		······································
Potential UCL to Use		Use 95% Student's-t UCL	27.79
tesult or 1/2 SDL (toluene)			
		Statistics	
Number of Valid Samples	16	Number of Unique Samples	16
Raw Statistics	and the state of t	Log-transformed Statistics	**************************************
Minimum	4.4500E-4	Minimum of Log Data	-7.717
Maximum	0.0058	Maximum of Log Data	-5.148
Mean	0.0014	Mean of log Data	-6.833
Median	8.6250E-4	SD of log Data	0.73
SD	0.0013		
Coefficient of Variation	0.937		
Skewness	2.533		
	Relevant U	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	<u> </u>	Shapiro Wilk Test Statistic	0.89
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.88
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	
Assuming Normal Distribution		Assuming Lognormal Distribution	Maria de la composição de la composição de la composição de la composição de la composição de la composição de
	·····	95% H-UCL	0.00
95% Student's-t UCL	0.0020		
95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.0020	95% Chebyshev (MVUE) UCL	0.002
	0.0020		
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.00
95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	0.0022	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	0.00
95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test	0.0022	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	0.00
95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL	0.0022 0.0020 1.593	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	0.00
95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star	0.0022 0.0020 1.593 8.9869E-4	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	0.002 0.003 0.004 ce Level
95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected)	0.0022 0.0020 1.593	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	0.00

And Production of the programme of the programme beautiful to	En antiqua Sana Tradition of the	from make the control of the control	and appear to the state of the
Adjusted Chi Square Value	34.13	95% Jackknife UCL	0.002
		95% Standard Bootstrap UCL	0.001
Anderson-Darling Test Statistic	0.909	95% Bootstrap-t UCL	0.002
Anderson-Darling 5% Critical Value	0.751	95% Hall's Bootstrap UCL	0.004
Kolmogorov-Smirnov Test Statistic	0.209	95% Percentile Bootstrap UCL	0.001
Kolmogorov-Smirnov 5% Critical Value	0.218	95% BCA Bootstrap UCL	0.002
Data follow Appr. Gamma Distribution at 5% Significar	ice Level	95% Chebyshev(Mean, Sd) UCL	0.002
		97.5% Chebyshev(Mean, Sd) UCL	0.003
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.004
95% Approximate Gamma UCL	0.0020		-1
95% Adjusted Gamma UCL	0.0021		
Potential UCL to Use		Use 95% Approximate Gamma UCL	0.002
Result or 1/2 SDL (vanadium) Number of Valid Samples	General	Statistics Number of Unique Samples	16
Raw Statistics Minimum	9.06	Log-transformed Statistics Minimum of Log Data	2.204
		_	3.054
Maximum	21.2	Maximum of Log Data	
Mean	13.86	Mean of log Data	2.599
Median	13.45	SD of log Data	0.251
SD	3.523		\$ 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
Coefficient of Variation Skewness	0.254 0.54		and decreased the same of the state of the s
	0.01		
	Relevant UC	CL Statistics	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.94	Shapiro Wilk Test Statistic	0.96
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.887
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	***************************************
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	15.4	95% H-UCL	15.64
95% UCLs (Adjusted for Skewness)	•	95% Chebyshev (MVUE) UCL	17.67
95% Adjusted-CLT UCL	15.44	97.5% Chebyshev (MVUE) UCL	19.32
95% Modified-t UCL	15.42	99% Chebyshev (MVUE) UCL	22.56
	-		
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	13.89	Data appear Normal at 5% Significance Level	nt meneritation of alequat
Theta Star	0.998		i
nu star	444.4		
Approximate Chi Square Value (.05)	396.5	Nonparametric Statistics	4.=///4-11.0= (
Adjusted Level of Significance	0.0335	-	15.31
Adjusted Chi Square Value	391.4	95% Jackknife UCL	15.4
, ajacou on oqualo value		95% Standard Bootstrap UCL	15.26
Anderson-Darling Test Statistic	0.338	95% Bootstrap-t UCL	15.59
Anderson-Darling 5% Critical Value	0.737	95% Hall's Bootstrap UCL	15.42
Kolmogorov-Smirnov Test Statistic	0.737	95% Percentile Bootstrap UCL	15.34
Normbyorov-Smirriov rest Statistic	0.140	3376 Fercentile Bookstrap OCL	10.04

and the first of t	l de la companie de la companie de la companie de la companie de la companie de la companie de la companie de	. By The space of the control of the state o	(colorador y maio
Kolmonov Spira 150 Original V	0.045	95% BCA Bootstrap UCL	15 4
Kolmogorov-Smirnov 5% Critical Value	1	•	15.4
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	17.7
		97.5% Chebyshev(Mean, Sd) UCL	19.3
Assuming Gamma Distribution	4	99% Chebyshev(Mean, Sd) UCL	22.6
95% Approximate Gamma UCL	15.53		
95% Adjusted Gamma UCL	15.74		
Potential UCL to Use		Use 95% Student's-t UCL	15.4
sult or 1/2 SDL (zinc)			
	General S	Statistics	
Number of Valid Samples	16	Number of Unique Samples	15
Raw Statistics		Log-transformed Statistics	
Minimum	18	Minimum of Log Data	2.
Maximum	92.6	Maximum of Log Data	4.
Mean	45.36	Mean of log Data	3.
Median	43.6	SD of log Data	0.4
SD	19.88		
Coefficient of Variation	0.438		***********
Skewness	0.681		
	Relevant UC	CL Statistics	Pi, (1975 19-0 19-0 1
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.929	Shapiro Wilk Test Statistic	0.9
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.8
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	, H************************************
95% Student's-t UCL	54.07	95% H-UCL	57.
95% UCLs (Adjusted for Skewness)	l	95% Chebyshev (MVUE) UCL	68.
95% Adjusted-CLT UCL	54,44	97.5% Chebyshev (MVUE) UCL	78.
95% Modified-t UCL	54.21	99% Chebyshev (MVUE) UCL	98.
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	4.539	Data appear Normal at 5% Significance Level	
Theta Star	9.992	The approximation of the control of	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
nu star	145.3		G-10410040111111
Approximate Chi Square Value (.05)	118.4	Nonparametric Statistics	
Approximate Cni Square Value (.us) Adjusted Level of Significance	0.0335	95% CLT UCL	53.
	ļ	95% Jackknife UCL	53.: 54.0
Adjusted Chi Square Value	115.7	Į.	53.0
Address	0.000	95% Standard Bootstrap UCL	
Anderson-Darling Test Statistic	0.399	95% Bootstrap-t UCL	55.
Anderson-Darling 5% Critical Value	0.741	95% Hall's Bootstrap UCL	55.0
Kolmogorov-Smirnov Test Statistic	<u> </u>	95% Percentile Bootstrap UCL	53.4
Kolmogorov-Smirnov 5% Critical Value	0.216	95% BCA Bootstrap UCL	54.0
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	67.0
		97.5% Chebyshev(Mean, Sd) UCL	76.4
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	94.8
95% Approximate Gamma UCL	55.64		

95% Adjusted Gamma UCL	56.97		
Potential UCL to Use		Use 95% Student's-t UCL	54.07

APPENDIX A-7

BACKGROUND SEDIMENT INTRACOASTAL WATERWAY

	General UCL Statistics	s for Full Da	ta Sets	
User Selected Options				
From File	J:\1352 - Gulfco RI\risk	(\data querie	s oct 07\EPC tables with onehalf DL\ISWE data - JUST BAC	KGROUN
Full Precision	OFF			
Confidence Coefficient	95%			
Number of Bootstrap Operations	2000			
Result or 1/2 SDL (1,2,4-trimethyl	lbonzono)			
result of 112 3DL (1,2,4-timelity)				
n garaggan an again 16 dephalanca again an ar punda an againn ag 18 de beign search gan an an again an again a		General	·	
N	umber of Valid Samples	9	Number of Unique Samples	9
	A. A. T. A.		Log-transformed Statistics	oderlike selesaine errete errete felene
on west	tatistics	14 00000 4		-8.74
		1.6000E-4	Minimum of Log Data	
entenne en retario en en 1800 de la marchia de la marchia de la composition de sette de la marchia de la partic	Maximum	0.0039	Maximum of Log Data	-5.544
of the second second second section for the second second second second section section (second section section second section second section section second section s		9.1039E-4 3.6200E-4	Mean of log Data	-7.594 1.007
ad to the control of the transport of the control o			SD of log Data	1.097
o An 1978 selection and an anti-man and a few selections of the angular and a selection and an angular and a s	SD	0.0012		
	Coefficient of Variation	1.33		
	Skewness	2.32		- m parteres in better of parters
ен жан жаны анган Абантан на Камана жаны ана на се е е е е е е е е е е е е е е е е е е	an a andrew a fin following a state of the officer on some frances of information of the state of the state of	Relevant UC	CL Statistics	
Normal Dist	tribution Test		Lognormal Distribution Test	
Sh	apiro Wilk Test Statistic	0.677	Shapiro Wilk Test Statistic	0.913
Shi	apiro Wilk Critical Value	0.829	Shapiro Wilk Critical Value	0.829
Data not Normal at 5	5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Nor	mal Distribution		Assuming Lognormal Distribution	
THE RESERVE OF THE PROPERTY OF	95% Student's-t UCL	0.0016	95% H-UCL	0.0036
95% UCLs (Adju	sted for Skewness)		95% Chebyshev (MVUE) UCL	0.0022
and the state of t	95% Adjusted-CLT UCL	0.0019	97.5% Chebyshev (MVUE) UCL	0.0028
and the property of the state of the property of the state of the stat	95% Modified-t UCL	0.0017	99% Chebyshev (MVUE) UCL	0.004
Gamma Dic	tribution Test	indicated the state of the desire of the state of the sta	Data Distribution	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Qanina Dis	k star (bias corrected)	0.725	Data appear Gamma Distributed at 5% Significance L	evel
employed and the property of the control of the con	Theta Star			
e manus per communicación de la properticación de la properticación de la properticación de la properticación d	nu star	13.06		nggan penahipa ti professoran diperatas
Annroximate	Chi Square Value (.05)	5.932	Nonparametric Statistics	
	ed Level of Significance	0.0231	95% CLT UCL	0.0015
	usted Chi Square Value	4.957	95% Jackknife UCL	0.0016
united the state of the state o	and on oqualo value	1,507	95% Standard Bootstrap UCL	0.0015
Anders	on-Darling Test Statistic	0.564	95% Bootstrap-t UCL	0.0033
	Parling 5% Critical Value	<u> </u>	95% Hall's Bootstrap UCL	0.0043
	v-Smirnov Test Statistic		95% Percentile Bootstrap UCL	0.0015
_	nirnov 5% Critical Value	0.287	95% BCA Bootstrap UCL	0.0018
Data appear Gamma Distrib		<u> </u>	95% Chebyshev(Mean, Sd) UCL	0.0026
			97.5% Chebyshev(Mean, Sd) UCL	0.0034
Assuming Gan	nma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0049
	proximate Gamma UCL	0.002	Construction of the constr	2.3010
· · · · · · · · · · · · · · · · · · ·	Adjusted Gamma UCL	0.0024		and the second of the
JU //		5.50£T		

General Statistics	Potential UCL to Use		Use 95% Approximate Gamma UCL	0.00
Number of Valid Samples 9 Number of Unique Samples 9	oult or 1/2 SDL (1.4-dichlorobenzene)			
Number of Valid Samples 9 Number of Unique Samples 9				
Rew Statistics		~		
Minimum 3,4050E-4 Minimum of Log Data 5,49	Number of Valid Samples	9	Number of Unique Samples	9
Maximum	Raw Statistics		Log-transformed Statistics	
Mean of log Data 6.91 Mean of log Data	Minimum	3.4050E-4	Minimum of Log Data	-7.98
Median 7,7000E-4 SD of log Data 0.9-	Maximum	0.0041	Maximum of Log Data	-5.49
Relevant UCL Statistics	Mean	0.0014	Mean of log Data	-6.91
Relevant UCL Statistics	Median	7.7000E-4	SD of log Data	0.9
Relevant UCL Statistics	SD	0.0013		
Normal Distribution Test	Coefficient of Variation	0.936		••••••••••••••••••••••••••••••••••••••
Normal Distribution Test	Skewness	1.198		
Shapiro Wilk Test Statistic 0.817 Shapiro Wilk Test Statistic 0.99 Shapiro Wilk Test Statistic 0.99 Shapiro Wilk Critical Value 0.829 Shapiro Wilk Critical Value 0.829 Shapiro Wilk Critical Value 0.829 Data appear Lognormal at 5% Significance Level		Relevant UCI	L Statistics	***************************************
Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level	Normal Distribution Test		Lognormal Distribution Test	***************************************
Data appear Lognormal at 5% Significance Level	Shapiro Wilk Test Statistic	0.817	Shapiro Wilk Test Statistic	0.9
Assuming Normal Distribution 95% Student's+t UCL 0.0023 95% Chebyshev (MVUE) UCL 0.002 95% UCLs (Adjusted for Skewness) 95% Chebyshev (MVUE) UCL 0.002 95% Adjusted-CLT UCL 0.0024 97.5% Chebyshev (MVUE) UCL 0.002 95% Modified+t UCL 0.0023 99% Chebyshev (MVUE) UCL 0.002 95% Modified+t UCL 0.0023 99% Chebyshev (MVUE) UCL 0.002 Gamma Distribution Test Data Distribution k star (bias corrected) 1.015 Data appear Gamma Distributed at 5% Significance Level Theta Star 0.0014 nu star 18.26 Approximate Chi Square Value (.05) 9.58 Nonparametric Statistics Adjusted Level of Significance 0.0231 95% CLT UCL 0.002 Adjusted Level of Significance 0.0231 95% Standard Bootstrap UCL 0.002 Anderson-Darling Test Statistic 0.467 95% Bootstrap+ UCL 0.002 Anderson-Darling S% Critical Value 0.736 95% Hall's Bootstrap UCL 0.002 Kolmogorov-Smirnov Test Statistic 0.21 95% Percentile Bootstrap UCL 0.002 Kolmogorov-Smirnov 5% Critical Value 0.285 95% BCA Bootstrap+ UCL 0.002 Data appear Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 0.002 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.0028 95% Adjusted Gamma UCL 0.0028 95% Adjusted Gamma UCL 0.0028	Shapiro Wilk Critical Value	0.829	Shapiro Wilk Critical Value	0.82
95% Student's-t UCL	Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level]
95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL 95% Significance Level Data appear Gamma Distributed at 5% Significance Level 95% Significance UCL 95% Bootstrap UCL 95% Bootstrap UCL 95% Bootstrap UCL 95% Bootstrap UCL 0.00 Anderson-Darling 5% Critical Value 9.736 95% BCA Bootstrap UCL 0.00 Kolmogorov-Smirnov Test Statistic 0.21 95% Precentile Bootstrap UCL 0.00 Kolmogorov-Smirnov 5% Critical Value 9.285 95% BCA Bootstrap UCL 0.00 Assuming Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 95% Approximate Gamma UCL 95% Approximate Gamma UCL 0.0028 95% Adjusted Gamma UCL 0.0028	Assuming Normal Distribution		Assuming Lognormal Distribution	tanti tanti tanti tanti tanti tanti tanti tanti tanti tanti tanti tanti tanti tanti tanti tanti tanti tanti ta
95% Adjusted-CLT UCL 95% Modified-t UCL 95% Modified-t UCL 95% Modified-t UCL 0.0023 99% Chebyshev (MVUE) UCL 0.00 Gamma Distribution Test Data Distribution k star (bias corrected) 1.015 Data appear Gamma Distributed at 5% Significance Level Theta Star 0.0014 nu star 18.26 Approximate Chi Square Value (.05) 9.58 Nonparametric Statistics Adjusted Level of Significance 0.0231 95% CLT UCL 0.00 Adjusted Chi Square Value 8.288 95% Jackknife UCL 95% Standard Bootstrap UCL 0.00 Anderson-Darling Test Statistic 0.467 95% Bootstrap+t UCL 0.00 Anderson-Darling 5% Critical Value 0.736 95% Hall's Bootstrap UCL 0.00 Kolmogorov-Smirnov Test Statistic 0.21 95% Percentile Bootstrap UCL 0.00 Kolmogorov-Smirnov 5% Critical Value 0.285 95% BCA Bootstrap UCL 0.00 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.00 95% Approximate Gamma UCL 0.0028 95% Adjusted Gamma UCL 0.0028	95% Student's-t UCL	0.0023	95% H-UCL	0.00
Standard Bootstrap UCL 0.002 99% Chebyshev (MVUE) UCL 0.002	95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.00
Gamma Distribution Test k star (blas corrected) Theta Star nu star 18.26 Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value 8.288 Monparametric Statistics Adjusted Chi Square Value 8.288 95% Standard Bootstrap UCL Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic None Nonparametric Statistic 95% Standard Bootstrap UCL 0.00 Anderson-Darling 5% Critical Value 0.736 95% Bootstrap-t UCL 0.00 Kolmogorov-Smirnov Test Statistic 0.21 95% Percentile Bootstrap UCL 0.00 Kolmogorov-Smirnov 5% Critical Value 0.285 95% BCA Bootstrap UCL 0.00 Assuming Gamma Distribution 97.5% Chebyshev(Mean, Sd) UCL 0.00 97.5% Chebyshev(Mean, Sd) UCL 0.00 95% Approximate Gamma UCL 0.0028 95% Adjusted Gamma UCL 0.0028	95% Adjusted-CLT UCL	0.0024	97.5% Chebyshev (MVUE) UCL	0.00
k star (blas corrected) 1.015 Theta Star 0.0014 nu star 18.26 Approximate Chi Square Value (.05) 9.58 Adjusted Level of Significance 0.0231 Adjusted Chi Square Value 8.288 Adjusted Chi Square Value 8.288 Adjusted Chi Square Value 8.288 Anderson-Darling Test Statistic 0.467 Anderson-Darling 5% Critical Value 0.736 Anderson-Darling 5% Critical Value 0.736 Kolmogorov-Smirnov Test Statistic 0.21 Solution 1.21 Solution 1.021 Assuming Gamma Distribution 95% Adjusted Gamma UCL 0.008 95% Adjusted Gamma UCL 0.008	95% Modified-t UCL	0.0023	99% Chebyshev (MVUE) UCL	0.00
Nonparametric Statistics Nonparametric Statistics	Gamma Distribution Test		Data Distribution	
Theta Star 0.0014		1.015	Data appear Gamma Distributed at 5% Significance L	_evel
Approximate Chi Square Value (.05) 9.58 Nonparametric Statistics Adjusted Level of Significance 0.0231 95% CLT UCL 0.00 Adjusted Chi Square Value 8.288 95% Jackknife UCL 0.00 Anderson-Darling Test Statistic 0.467 95% Bootstrap UCL 0.00 Anderson-Darling 5% Critical Value 0.736 95% Hall's Bootstrap UCL 0.00 Kolmogorov-Smirnov Test Statistic 0.21 95% Percentile Bootstrap UCL 0.00 Kolmogorov-Smirnov 5% Critical Value 0.285 95% BCA Bootstrap UCL 0.00 Column 2000-Smirnov 5% Critical Value 0.285 95% Chebyshev(Mean, Sd) UCL 0.00 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.00 95% Approximate Gamma UCL 0.0028 95% Adjusted Gamma UCL 0.0028				teripetekkomusetaiteere
Adjusted Level of Significance 0.0231 95% CLT UCL 0.00 Adjusted Chi Square Value 8.288 95% Jackknife UCL 0.00 95% Standard Bootstrap UCL 0.00 Anderson-Darling Test Statistic 0.467 95% Bootstrap-t UCL 0.00 Anderson-Darling 5% Critical Value 0.736 95% Hall's Bootstrap UCL 0.00 Kolmogorov-Smirnov Test Statistic 0.21 95% Percentile Bootstrap UCL 0.00 Kolmogorov-Smirnov 5% Critical Value 0.285 95% BCA Bootstrap UCL 0.00 Kolmogorov-Smirnov 5% Critical Value 0.285 95% BCA Bootstrap UCL 0.00 Data appear Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 0.00 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.00 95% Approximate Gamma UCL 0.0028 95% Adjusted Gamma UCL 0.0032	nu star	18.26		
Adjusted Chi Square Value 8.288 95% Jackknife UCL 0.00 95% Standard Bootstrap UCL 0.00 Anderson-Darling Test Statistic 0.467 95% Bootstrap-t UCL 0.00 Anderson-Darling 5% Critical Value 0.736 95% Hall's Bootstrap UCL 0.00 Kolmogorov-Smirnov Test Statistic 0.21 95% Percentile Bootstrap UCL 0.00 Kolmogorov-Smirnov 5% Critical Value 0.285 95% BCA Bootstrap UCL 0.00 Data appear Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 0.00 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.00 95% Approximate Gamma UCL 0.0028 95% Adjusted Gamma UCL 0.0032	Approximate Chi Square Value (.05)	9.58	Nonparametric Statistics	
Anderson-Darling Test Statistic 0.467 95% Bootstrap UCL 0.00 Anderson-Darling 5% Critical Value 0.736 95% Hall's Bootstrap UCL 0.00 Kolmogorov-Smirnov Test Statistic 0.21 95% Percentile Bootstrap UCL 0.00 Kolmogorov-Smirnov 5% Critical Value 0.285 95% BCA Bootstrap UCL 0.00 Data appear Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 0.00 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.00 95% Approximate Gamma UCL 0.0028 95% Adjusted Gamma UCL 0.0032	Adjusted Level of Significance	0.0231	95% CLT UCL	0.00
Anderson-Darling Test Statistic 0.467 95% Bootstrap-t UCL 0.00 Anderson-Darling 5% Critical Value 0.736 95% Hall's Bootstrap UCL 0.00 Kolmogorov-Smirnov Test Statistic 0.21 95% Percentile Bootstrap UCL 0.00 Kolmogorov-Smirnov 5% Critical Value 0.285 95% BCA Bootstrap UCL 0.00 Data appear Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 0.00 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.00 95% Approximate Gamma UCL 0.0028 95% Adjusted Gamma UCL 0.0032	Adjusted Chi Square Value	8.288	95% Jackknife UCL	0.00
Anderson-Darling 5% Critical Value 0.736 95% Hall's Bootstrap UCL 0.00 Kolmogorov-Smirnov Test Statistic 0.21 95% Percentile Bootstrap UCL 0.00 Kolmogorov-Smirnov 5% Critical Value 0.285 95% BCA Bootstrap UCL 0.00 Data appear Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 0.00 97.5% Chebyshev(Mean, Sd) UCL 0.00 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.00 95% Approximate Gamma UCL 0.0028 95% Adjusted Gamma UCL 0.0032			95% Standard Bootstrap UCL	0.00
Kolmogorov-Smirnov Test Statistic 0.21 95% Percentile Bootstrap UCL 0.00 Kolmogorov-Smirnov 5% Critical Value 0.285 95% BCA Bootstrap UCL 0.00 Data appear Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 0.00 97.5% Chebyshev(Mean, Sd) UCL 0.00 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.00 95% Approximate Gamma UCL 0.0028 95% Adjusted Gamma UCL 0.0032		0.467		
Kolmogorov-Smirnov 5% Critical Value 0.285 95% BCA Bootstrap UCL 0.00 Data appear Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 0.00 97.5% Chebyshev(Mean, Sd) UCL 0.00 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.00 95% Approximate Gamma UCL 0.0028 95% Adjusted Gamma UCL 0.0032	_			
Data appear Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 0.00 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.00 95% Approximate Gamma UCL 0.0028 95% Adjusted Gamma UCL 0.0032			·	rana ranamasana ana
97.5% Chebyshev(Mean, Sd) UCL 0.00 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.00 95% Approximate Gamma UCL 0.0028 95% Adjusted Gamma UCL 0.0032	_			
Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.00 95% Approximate Gamma UCL 0.0028 95% Adjusted Gamma UCL 0.0032	Data appear Gamma Distributed at 5% Significance	Level		
95% Approximate Gamma UCL 0.0028 95% Adjusted Gamma UCL 0.0032				
95% Adjusted Gamma UCL 0.0032			99% Chebyshev(Mean, Sd) UCL	0.00
	, ,			·····
Potential UCL to Use Use 95% Approximate Gamma UCL 0.00	95% Adjusted Gamma UCL	0.0032		entre estate en entre en entre en
	Potential UCL to Use		Use 95% Approximate Gamma UCL	0.00

Number of Valid Occurs	General S		0
Number of Valid Samples	9	Number of Unique Samples	9
Raw Statistics		Log-transformed Statistics	
Minimum	2.5250E-4	Minimum of Log Data	-8.284
Maximum		Maximum of Log Data	-6.02
Mean	0.0011	Mean of log Data	-7.04
Median	0.0011	SD of log Data	0.879
SD	8.4810E-4		
Coefficient of Variation	0.718		
Skewness	0.348		
	Relevant UCI	L Statistics	P
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.89	Shapiro Wilk Test Statistic	0.9
Shapiro Wilk Critical Value	[Shapiro Wilk Critical Value	0.829
Data appear Normal at 5% Significance Level	1 1	Data appear Lognormal at 5% Significance Level	***************************************
Assuming Normal Distribution		Assuming Lognormal Distribution	······································
95% Student's-t UCL	0.0017	95% H-UCL	0.003
95% UCLs (Adjusted for Skewness)	1 0.0017	95% Chebyshev (MVUE) UCL	0.002
95% Adjusted-CLT UCL	0.0016	97.5% Chebyshev (MVUE) UCL	0.003
95% Modified-t UCL	0.0017	99% Chebyshev (MVUE) UCL	0.004
	L		The state of the s
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.288	Data appear Normal at 5% Significance Level	the man to the farmer manner.
Theta Star	9.1690E-4		
nu star	23.19		Homedaskirkinkura
Approximate Chi Square Value (.05)	13.23	Nonparametric Statistics	
Adjusted Level of Significance	0.0231	95% CLT UCL	0.001
Adjusted Chi Square Value	11.68	95% Jackknife UCL	0.001
		95% Standard Bootstrap UCL	0.001
Anderson-Darling Test Statistic	0.402	95% Bootstrap-t UCL	0.001
Anderson-Darling 5% Critical Value	0.731	95% Hali's Bootstrap UCL	0.001
Kolmogorov-Smirnov Test Statistic	1	95% Percentile Bootstrap UCL	0.001
Kolmogorov-Smirnov 5% Critical Value	0.283	95% BCA Bootstrap UCL	0.001
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	0.002
		97.5% Chebyshev(Mean, Sd) UCL	0.002
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.003
95% Approximate Gamma UCL	0.0020		
95% Adjusted Gamma UCL	0.0023		- married and the boundary processing
Potential UCL to Use		Use 95% Student's-t UCL	0.001
esult or 1/2 SDL (4,4'-ddt)			
	General St	atistics	
Number of Valid Samples	9	Number of Unique Samples	8
	dimining enduring to		
Raw Statistics	i i	Log-transformed Statistics	

	√28	Therefore the sold in the sold of the sold	eren lar
Movimum	5.7000E-4	Maximum of Log Data	- 7.47
	1.5550E-4	Mean of log Data	-8.988
	1.0450E-4	SD of log Data	0.576
	1.5569E-4	SS 51 log Pata	0,07
Coefficient of Variation			
Skewness	<u>.</u>		***************************************
Ciomios	1 2.001		
	Relevant U	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	<u> </u>	Shapiro Wilk Test Statistic	0.53
Shapiro Wilk Critical Value	0.829	Shapiro Wilk Critical Value	0.82
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	77171819 4 148 846 855 855 855 855 855 855 855 855 855 85	Assuming Lognormal Distribution	
95% Student's-t UCL	2.5201E-4	95% H-UCL	2.4166E
95% UCLs (Adjusted for Skewness)	<u> </u>	95% Chebyshev (MVUE) UCL	2.6745E-
95% Adjusted-CLT UCL	2.9597E-4	97.5% Chebyshev (MVUE) UCL	
95% Modified-t UCL		99% Chebyshev (MVUE) UCL	
Gamma Distribution Test	1.007	Data Distribution)_\
k star (bias corrected)	1	Data do not follow a Discernable Distribution (0.0	15)
	9.1636E-5		di
nu star			
Approximate Chi Square Value (.05)	18.92	Nonparametric Statistics	0 1000F
Adjusted Level of Significance	0.0231	1	
Adjusted Chi Square Value	17.02	95% Jackknife UCL	
	0.007	95% Standard Bootstrap UCL	
Anderson-Darling Test Statistic	ł .	95% Bootstrap-t UCL	0.00
Anderson-Darling 5% Critical Value		95% Hall's Bootstrap UCL	
Kolmogorov-Smirnov Test Statistic		95% Percentile Bootstrap UCL	
Kolmogorov-Smirnov 5% Critical Value	Ĺ	95% BCA Bootstrap UCL	
Data not Gamma Distributed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL	
		97.5% Chebyshev(Mean, Sd) UCL	
Assuming Gamma Distribution	10 = 400= 4	99% Chebyshev(Mean, Sd) UCL	6./188E
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	1		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	3.8172E-
esult or 1/2 SDL (aluminum)			
	General	Statistics	
Number of Valid Samples	9	Number of Unique Samples	9
Day Chatalia		Log-transformed Statistics	
Raw Statistics Minimum	4730	Log-transformed Statistics Minimum of Log Data	8.46
		Maximum of Log Data Maximum of Log Data	9.99
Maximum	<u> </u>		
Mean		Mean of log Data	9.25
Median		SD of log Data	0.60
SD	6892		***************************************
Coefficient of Variation	0.564		

	I Maria de la companya dela companya dela companya dela companya de la companya d		Saffreat trees
Skewness	0.403		
	I		~bPa
	Relevant UC	CL Statistics	***************************************
Normal Distribution Test		Lognormal Distribution Test	***************************************
Shapiro Wilk Test Statistic	0.877	Shapiro Wilk Test Statistic	0.9
Shapiro Wilk Critical Value	0.829	Shapiro Wilk Critical Value	0.8
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	əl
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	16486	95% H-UCL	21311
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	23251
95% Adjusted-CLT UCL	16322	97.5% Chebyshev (MVUE) UCL	28003
95% Modified-t UCL	16537	99% Chebyshev (MVUE) UCL	37338
Gamma Distribution Test	0.000	Data Distribution	
k star (bias corrected)	2.326	Data appear Normal at 5% Significance Level	***************************************
Theta Star	5252		***********************
nu star	41.86		
Approximate Chi Square Value (.05)	28.03	Nonparametric Statistics	
Adjusted Level of Significance	0.0231	95% CLT UCL	15992
Adjusted Chi Square Value	25.67	95% Jackknife UCL	16486
		95% Standard Bootstrap UCL	15701
Anderson-Darling Test Statistic	0.414	95% Bootstrap-t UCL	16891
Anderson-Darling 5% Critical Value	0.726	95% Hall's Bootstrap UCL	15366
Kolmogorov-Smirnov Test Statistic	0.176	95% Percentile Bootstrap UCL	15822
Kolmogorov-Smirnov 5% Critical Value	0.281	95% BCA Bootstrap UCL	16030
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	22228
		97.5% Chebyshev(Mean, Sd) UCL	26561
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	35073
95% Approximate Gamma UCL	18240		
95% Adjusted Gamma UCL	19920		
Potential UCL to Use		Use 95% Student's-t UCL	16486
ult or 1/2 SDL (antimony)			
	General S	Statistics	
Number of Valid Samples	9	Number of Unique Samples	9
Raw Statistics		Log-transformed Statistics	n f Plant of the personal by Forger by
Minimum	1.68	Minimum of Log Data	0.5
Maximum	7.33	Maximum of Log Data	1.99
Mean	4.023	Mean of log Data	1.2
Median	2.83	SD of log Data	0.5
SD	2.215		
Coefficient of Variation	0.55	**************************************	
Skewness	0.488		
F	Relevant UC	L Statistics	gen en de fant de confest de men e fe
Normal Distribution Test	7	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.866	Shapiro Wilk Test Statistic	0.89

Data annoar Normal at EW Cientificance !!	0.829	Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level	0.82
Data appear Normal at 5% Significance Level		Data appear Logitorniar at 3% Significance Level	Mar 2004 11 11 11 11 11 11 11 11 11 11 11 11 11
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	5.396	95% H-UCL	6.66
95% UCLs (Adjusted for Skewness)	<u> </u>	95% Chebyshev (MVUE) UCL	7.40
95% Adjusted-CLT UCL	5.366	97.5% Chebyshev (MVUE) UCL	8.87
95% Modified-t UCL	5.416	99% Chebyshev (MVUE) UCL	11.74
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	2.544	Data appear Normal at 5% Significance Level	
Theta Star	1.581		
nu star	45.79		
Approximate Chi Square Value (.05)	31.27	Nonparametric Statistics	
Adjusted Level of Significance	0.0231	95% CLT UCL	5.23
Adjusted Chi Square Value	28.76	95% Jackknife UCL	5.39
		95% Standard Bootstrap UCL	5.17
Anderson-Darling Test Statistic	0.505	95% Bootstrap-t UCL	5.62
Anderson-Darling 5% Critical Value	0.726	95% Hall's Bootstrap UCL	5.01
Kolmogorov-Smirnov Test Statistic	0.233	95% Percentile Bootstrap UCL	5.18
Kolmogorov-Smirnov 5% Critical Value	0.281	95% BCA Bootstrap UCL	5.20
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	7.24
		97.5% Chebyshev(Mean, Sd) UCL	8.63
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	11.37
95% Approximate Gamma UCL	5.892		
95% Adjusted Gamma UCL	6.407		
Potential UCL to Use		Use 95% Student's-t UCL	5.39
sult or 1/2 SDL (arsenic)			
	General	Statistics	
Number of Valid Samples	9	Number of Unique Samples	9
Raw Statistics		Log-transformed Statistics	
Minimum	2.36	Minimum of Log Data	0.85
Maximum	9.62	Maximum of Log Data	2.26
Mean	5.813	Mean of log Data	1.62
Median	4.63	SD of log Data	0.56
SD	3.107		
	0.534		
Coefficient of Variation			
Coefficient of Variation Skewness	0.351		
Skewness		CL Statistics	
Skewness		CL Statistics Lognormal Distribution Test	
Skewness			0.87
Skewness F Normal Distribution Test	Relevant UC	Lognormal Distribution Test	0.87
Skewness F Normal Distribution Test Shapiro Wilk Test Statistic	Relevant UC	Lognormal Distribution Test Shapiro Wilk Test Statistic	
Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	Relevant UC	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	

95% UCLs (Adjusted for Skewness)	1	0E0/ OL-L (40/1)E\ 1101	10.71
000 A P. 4 A DITLIOI	7.040	95% Chebyshev (MVUE) UCL	
95% Adjusted-CLT UCL	7.646	97.5% Chebyshev (MVUE) UCL	12.8
95% Modified-t UCL	7.759	99% Chebyshev (MVUE) UCL	16.9
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	2.603	Data appear Normal at 5% Significance Level	
. Theta Star	2.233	i kuran manan manan manan manan manan manan manan kalan dan manan manan manan manan manan manan manan manan ma	
nu star	46.86		
Approximate Chi Square Value (.05)	32.15	Nonparametric Statistics	
Adjusted Level of Significance	0.0231	95% CLT UCL	7.5
Adjusted Chi Square Value	29.61	95% Jackknife UCL	7.7
		95% Standard Bootstrap UCL	7.4
Anderson-Darling Test Statistic	0.558	95% Bootstrap-t UCL	8.0
Anderson-Darling 5% Critical Value	0.725	95% Hall's Bootstrap UCL	7.1
Kolmogorov-Smirnov Test Statistic	0.223	95% Percentile Bootstrap UCL	7.4
Kolmogorov-Smirnov 5% Critical Value	0.281	95% BCA Bootstrap UCL	7.5
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	10.3
		97.5% Chebyshev(Mean, Sd) UCL	12.2
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	16.1
95% Approximate Gamma UCL	8.473		
95% Adjusted Gamma UCL	9.202		
Potential UCL to Use		Use 95% Student's-t UCL	7.7
ult or 1/2 SDL (barium)	General Stati	stics	
Number of Valid Samples	General Stati	stics Number of Unique Samples	9
Number of Valid Samples		Number of Unique Samples	9
Number of Valid Samples Raw Statistics	9	Number of Unique Samples Log-transformed Statistics	CATALON CONTRACTOR OF THE PARTY
Number of Valid Samples Raw Statistics Minimum	9	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	4.7
Number of Valid Samples Raw Statistics Minimum Maximum	111 280	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	4.7 5.6
Raw Statistics Minimum Maximum Mean	9 111 280 209.7	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	4.7 5.6 5.3
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	9 111 280 209.7 201	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	4.7 5.6 5.3
Raw Statistics Minimum Maximum Mean Median	9 1111 280 209.7 201 47.73	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	4.7 5.6 5.3
Raw Statistics Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation	9 1111 280 209.7 201 47.73 0.228	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	4.7 5.6 5.3
Raw Statistics Minimum Maximum Mean Median	9 1111 280 209.7 201 47.73	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	4.7 5.6 5.3
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	9 1111 280 209.7 201 47.73 0.228	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	4.7 5.6 5.3
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	9 111 280 209.7 201 47.73 0.228 -0.775	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	4.7 5.6 5.3
Raw Statistics Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	9 111 280 209.7 201 47.73 0.228 -0.775	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	4.7 5.6 5.3 0.2
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test	9 1111 280 209.7 201 47.73 0.228 -0.775 Relevant UCL St	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Latistics Lognormal Distribution Test	4.7 5.6 5.3 0.2
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic	9 111 280 209.7 201 47.73 0.228 -0.775 Relevant UCL St	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic	4.7 5.6 5.3 0.2 0.8
Raw Statistics Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level	9 111 280 209.7 201 47.73 0.228 -0.775 Relevant UCL St	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data tatistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level	4.7 5.6 5.3 0.2 0.8
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution	9 1111 280 209.7 201 47.73 0.228 -0.775 Relevant UCL St	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data Assuming Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level	4.7 5.6 5.3 0.2 0.8 0.8
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	9 111 280 209.7 201 47.73 0.228 -0.775 Relevant UCL St	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	4.7 5.6 5.3 0.2 0.8 0.8 1
Raw Statistics Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	9 1111 280 209.7 201 47.73 0.228 -0.775 Relevant UCL St 0.93 0.829	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	4.7 5.6 5.3 0.2 0.8 0.8 253.9 291.1
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	9 1111 280 209.7 201 47.73 0.228 -0.775 Relevant UCL St	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	4.7 5.6 5.3 0.2 0.8 0.8
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	9 111 280 209.7 201 47.73 0.228 -0.775 Relevant UCL St 0.93 0.829 239.2	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	4.7 5.6 5.3 0.2 0.8 0.8 0.8 1 253.9 291.1

12.22 17.15	Data appear Normal at 5% Significance Level	
17.15		
220		
186.7	Nonparametric Statistics	
0.0231	95% CLT UCL	235.8
180.2	95% Jackknife UCL	239.2
	95% Standard Bootstrap UCL	233.9
0.517	95% Bootstrap-t UCL	234.2
0.721	95% Hall's Bootstrap UCL	233.5
0.25	95% Percentile Bootstrap UCL	233
0.279	95% BCA Bootstrap UCL	230.4
evel	95% Chebyshev(Mean, Sd) UCL	279
	97.5% Chebyshev(Mean, Sd) UCL	309
	99% Chebyshev(Mean, Sd) UCL	368
247.1		THE THE PERSON NAMED OF STREET
256		aran marang antara ya tata
	Use 95% Student's-t UCL	239.2
Osseral Stati		
		9
9	Number of Unique Samples	9
	Log-transformed Statistics	her and hereald research productive of splace
0.0045	Minimum of Log Data	-5.394
0.0369	Maximum of Log Data	-3.3
0.0087	Mean of log Data	-5.045
0.0054	SD of log Data	0.66
0.0106		
1.213		
2.99		**************************************
levant UCL S		
	_	
	·	0.51
0.829		0.82
	Data not Lognormal at 5% Significance Level	A CONTRACTOR OF THE CONTRACTOR
S	Assuming Lognormal Distribution	
0.0153	95% H-UCL	0.01
	95% Chebyshev (MVUE) UCL	0.01
0.0183	97.5% Chebyshev (MVUE) UCL	0.01
0.0159	99% Chebyshev (MVUE) UCL	0.02
	Data Distribution	
1 273		5)
	20 10 1010 a Discernable Distribution (0.00	-1
22.92		*************************
13.03	Nonparametric Statistics	
	186.7 0.0231 180.2 0.517 0.721 0.25 0.279 evel 247.1 256 General Stati 9 0.0045 0.0369 0.0087 0.0054 0.0106 1.213 2.99 levant UCL S 0.429 0.829 0.0153 0.0153	186.7 Nonparametric Statistics 95% CLT UCL 180.2 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Standard Bootstrap UCL 95% Hall's Bootstrap UCL 0.517 95% Bootstrap UCL 95% Hall's Bootstrap UCL 0.25 95% Percentile Bootstrap UCL 0.279 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev (Mean, Sd) UCL 95% Chebyshev (Mean, Sd) UCL 95% Chebyshev (MVUE) UCL 95% Chebyshev (MVUE) UCL 95% Chebyshev (MVUE) UCL 0.0183 97.5% Chebyshev (MVUE) UCL 0.0184 97.5% Chebyshev (MVUE) UCL 0.0185 99% Chebyshev (MVUE) UCL 0.0184 97.5% Chebyshev (MVUE) UCL 0.0185 99% Chebyshev (MVUE) UCL 0.0186 99% Chebyshev (MVUE) UCL 0.0187 0.0068 0

	Lance Co.		an doze :
Adjusted Chi Square Value	11.49	95% Jackknife UCL	0.015
		95% Standard Bootstrap UCL	0.014
Anderson-Darling Test Statistic	2.375	95% Bootstrap-t UCL	0.111
Anderson-Darling 5% Critical Value	0.732	95% Hall's Bootstrap UCL	0.077
Kolmogorov-Smirnov Test Statistic	0.493	95% Percentile Bootstrap UCL	0.015
Kolmogorov-Smirnov 5% Critical Value	0.283	95% BCA Bootstrap UCL	0.016
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.024
		97.5% Chebyshev(Mean, Sd) UCL	0.030
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.043
95% Approximate Gamma UCL	0.0153		
95% Adjusted Gamma UCL	0.0174		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.024
Result or 1/2 SDL (beryllium)	General \$		
Number of Valid Samples	9	Number of Unique Samples	9
Raw Statistics		Log-transformed Statistics	
Minimum	0.32	Minimum of Log Data	-1.139
Maximum	1.32	Maximum of Log Data	0.278
Mean	0.766	Mean of log Data	-0.403
Median	0.69	SD of log Data	0.566
SD	0.403		
Coefficient of Variation	0.527		
Skewness	0.315		
F	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.882	Shapiro Wilk Test Statistic	0.898
Shapiro Wilk Critical Value	0.829	Shapiro Wilk Critical Value	0.829
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	
A			
Assuming Normal Distribution 95% Student's-t UCL	1 010	Assuming Lognormal Distribution	1.27
	1.016	95% H-UCL	
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.412
95% Adjusted-CLT UCL	1.002	97.5% Chebyshev (MVUE) UCL	1.69
95% Modified-t UCL	1.018	99% Chebyshev (MVUE) UCL	2.237

Gamma Distribution Test		Data Distribution	£44-444-444-444-444-444-444-444-444-444
k star (bias corrected)	2.633	Data appear Normal at 5% Significance Level	(-
Theta Star	0.291		
nu star	47.4		14 To 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Approximate Chi Square Value (.05)	32.6	Nonparametric Statistics	Tart 1 1000 100 100 100 100 100 100 100 100
Adjusted Level of Significance	0.0231	95% CLT UCL	0.987
Adjusted Chi Square Value	30.03	95% Jackknife UCL	1.016
		95% Standard Bootstrap UCL	0.976
Anderson-Darling Test Statistic	0.424	95% Bootstrap-t UCL	1.035
Anderson-Darling 5% Critical Value	0.725	95% Hall's Bootstrap UCL	0.942
Kolmogorov-Smirnov Test Statistic	0.18	95% Percentile Bootstrap UCL	0.979

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Kolmogorov-Smirnov 5% Critical Value	0.281	95% BCA Bootstrap UCL	0.9
Data appear Gamma Distributed at 5% Significance		95% Chebyshev(Mean, Sd) UCL	1.3
Data appear dannia Distributed at 0% digrinicance	Level	97.5% Chebyshev(Mean, Sd) UCL	1.6
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	2.1
95% Approximate Gamma UCL	1.113	99 % Chebyshev (Mean, 3d) OCL	د
95% Adjusted Gamma UCL	1.113		
30 % / Majasted dallillia 001	1.200		
Potential UCL to Use		Use 95% Student's-t UCL	1.0
sult or 1/2 SDL (boron)			***************************************
	General Stat	istics	
Number of Valid Samples	9	Number of Unique Samples	9
Raw Statistics		Log-transformed Statistics	
Minimum	13.3	Minimum of Log Data	2.
Maximum	47.9	Maximum of Log Data	3.
Mean	27.64	Mean of log Data	3.
Median	26	SD of log Data	0.4
SD	12.82		
Coefficient of Variation	0.464		
Skewness	0.532		
F	Relevant UCL S	Statistics	***************************************
Normal Distribution Test	in the face of the sale of the	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.911	Shapiro Wilk Test Statistic	0.9
Shapiro Wilk Critical Value	0.829	Shapiro Wilk Critical Value	0.
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution	A. D. C.	Assuming Lognormal Distribution	***************************************
95% Student's-t UCL	35.59	95% H-UCL	
95% UCLs (Adjusted for Skewness)		***	40.
95% Adjusted-CLT UCL		95% Chebyshey (MVUE) UCL	
• 1	35.48	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	46.
95% Modified-t UCL	35.48 35.71	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	46. 55.
		97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	46. 55.
Gamma Distribution Test	35.71	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	46. 55.
	35.71	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	46. 55.
Gamma Distribution Test k star (bias corrected) Theta Star	35.71 3.598 7.684	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	46. 55.
Gamma Distribution Test k star (bias corrected) Theta Star nu star	35.71 3.598 7.684 64.76	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Normal at 5% Significance Level	46. 55.
Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05)	35.71 3.598 7.684 64.76 47.24	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Normal at 5% Significance Level Nonparametric Statistics	46. 55. 71.
Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance	35.71 3.598 7.684 64.76 47.24 0.0231	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Normal at 5% Significance Level Nonparametric Statistics 95% CLT UCL	46.i 55. 71.a
Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05)	35.71 3.598 7.684 64.76 47.24	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Normal at 5% Significance Level Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL	46.355. 71.4 34.0 35.8
Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value	35.71 3.598 7.684 64.76 47.24 0.0231 44.1	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Normal at 5% Significance Level Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL	34.0 34.0 34.0 34.0
Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic	35.71 3.598 7.684 64.76 47.24 0.0231 44.1	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Normal at 5% Significance Level Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL	34.0 35.1 34.0 35.1 37.1
Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value	35.71 3.598 7.684 64.76 47.24 0.0231 44.1 0.301 0.723	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Normal at 5% Significance Level Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL	34.1 35.3 37.3 35.4
Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic	35.71 3.598 7.684 64.76 47.24 0.0231 44.1 0.301 0.723 0.159	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Normal at 5% Significance Level Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Percentile Bootstrap UCL	34.0 35.3 34.0 35.3 35.3 34.0 35.3
Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value	35.71 3.598 7.684 64.76 47.24 0.0231 44.1 0.301 0.723 0.159 0.28	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Normal at 5% Significance Level Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL	34.6 35.3 34.6 35.3 34.6
Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic	35.71 3.598 7.684 64.76 47.24 0.0231 44.1 0.301 0.723 0.159 0.28	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Normal at 5% Significance Level Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% BCA Bootstrap UCL	34.6 35.3 34.6 35.3 34.6 34.6 35.4 34.6 34.6
Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value	35.71 3.598 7.684 64.76 47.24 0.0231 44.1 0.301 0.723 0.159 0.28	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Normal at 5% Significance Level Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL	40.8 46.8 55.7 71.4 34.6 35.8 37.2 35.3 34.6 46.2 70.7

95% Adjusted Gamma UCL	40.59		
Potential UCL to Use		Use 95% Student's-t UCL	35.59
esult or 1/2 SDL (carbon disulfide)			
	General		
Number of Valid Samples	9	Number of Unique Samples	9
Raw Statistics		Log-transformed Statistics	
	8.8000E-5	Minimum of Log Data	-9.338
Maximum	0.0084	Maximum of Log Data	-4.778
Mean	0.0015	Mean of log Data	-7.728
	4.0500E-4	SD of log Data	1.636
SD	0.0027		
Coefficient of Variation	1.789		······································
Skewness	2.348		
CROWNESS	2.010		terplants and also decreased and additional
I	Relevant UC	CL Statistics	** - **
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.612	Shapiro Wilk Test Statistic	0.888
Shapiro Wilk Critical Value	0.829	Shapiro Wilk Critical Value	0.829
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0032	95% H-UCL	0.028
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.004
95% Adjusted-CLT UCL	0.0038	97.5% Chebyshev (MVUE) UCL	0.005
95% Modified-t UCL	0.0034	99% Chebyshev (MVUE) UCL	0.008
Gamma Distribution Test	5.44	Data Distribution	
k star (bias corrected) Theta Star	0.41 0.0037	Data appear Gamma Distributed at 5% Significance L	_evei
nu stari	7.375		
Approximate Chi Square Value (.05)	2.378	Nonparametric Statistics	
Adjusted Level of Significance	0.0231	95% CLT UCL	0.003
Adjusted Chi Square Value	1.825	95% Jackknife UCL	0.003
		95% Standard Bootstrap UCL	0.003
Anderson-Darling Test Statistic	0.768	95% Bootstrap-t UCL	0.015
Anderson-Darling 5% Critical Value	0.77	95% Hall's Bootstrap UCL	0.011
Kolmogorov-Smirnov Test Statistic	0.256	95% Percentile Bootstrap UCL	0.003
Kolmogorov-Smirnov 5% Critical Value	0.294	95% BCA Bootstrap UCL	0.003
Data appear Gamma Distributed at 5% Significance		95% Chebyshev(Mean, Sd) UCL	0.005
		97.5% Chebyshev(Mean, Sd) UCL	0.007
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.007
95% Approximate Gamma UCL	0.0048		
95% Adjusted Gamma UCL	0.0040		***************************************
			
Potential UCL to Use	ì	1	

tantamentamentamentamentamentamentamenta	General	Statistics	
Number of Valid Samples	9	Number of Unique Samples	9
Raw Statistics	Ph. Park La	Log-transformed Statistics	
Minimum	5.81	Minimum of Log Data	1.76
Maximum	22.5	Maximum of Log Data	3.11
Mean	12.81	Mean of log Data	2.43
Median	11.1	SD of log Data	0.52
SD	6.512		
· Coefficient of Variation	0.508		
Skewness	0.444	4	
	Jolovont II	CL Statistics	,
Normal Distribution Test	Relevant O	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.89	Shapiro Wilk Test Statistic	0.9
Shapiro Wilk Critical Value	0.829	Shapiro Wilk Critical Value	0.82
Data appear Normal at 5% Significance Level	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Data appear Lognormal at 5% Significance Level	
	of Court for an electron Western Could can consider the court for the co		
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	16.85	95% H-UCL	20.2
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	22.82
95% Adjusted-CLT UCL	16.73	97.5% Chebyshev (MVUE) UCL	27.14
95% Modified-t UCL	16.9	99% Chebyshev (MVUE) UCL	35.62
Gamma Distribution Test		Data Distribution	rka anggaptin sa jagabataga sa
k star (bias corrected)	2.941	Data appear Normal at 5% Significance Level	
Theta Star	4.356		
nu star	52.95		
Approximate Chi Square Value (.05)	37.23	Nonparametric Statistics	
Adjusted Level of Significance	0.0231	95% CLT UCL	16.38
Adjusted Chi Square Value	34.47	95% Jackknife UCL	16.85
		95% Standard Bootstrap UCL	16.18
Anderson-Darling Test Statistic	0.391	95% Bootstrap-t UCL	17.33
Anderson-Darling 5% Critical Value	0.724	95% Hall's Bootstrap UCL	15.96
Kolmogorov-Smirnov Test Statistic	0.167	95% Percentile Bootstrap UCL	16.21
Kolmogorov-Smirnov 5% Critical Value	0.28	95% BCA Bootstrap UCL	16.55
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	22.28
		97.5% Chebyshev(Mean, Sd) UCL	26.37
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	34.41
95% Approximate Gamma UCL	18.22		***************************************
95% Adjusted Gamma UCL	19.68		
Potential UCL to Use		Use 95% Student's-t UCL	16.85
ult or 1/2 SDL (cis-1,2-dichloroethene)			
			a amerikaan (***********************************

Raw Statistics		Log-transformed Statistics	Ž
Minimum	1 02005 4	Minimum of Log Data	-9.191
Maximum	0.0284	Maximum of Log Data	-3.561
Mean	0.0284	Mean of log Data	-7.775
	2.3050E-4	SD of log Data	1.763
SD	0.0093	OD Of Tog Dutie	1.700
Coefficient of Variation	2.706		
Skewness	2.995	· ·	
	Relevant UCI	Statistics	
Normal Distribution Test	veievant ooi	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.415	Shapiro Wilk Test Statistic	0.777
Shapiro Wilk Critical Value	0.829	Shapiro Wilk Critical Value	0.829
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0092	95% H-UCL	0.051
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.005
95% Adjusted-CLT UCL	0.0119	97.5% Chebyshev (MVUE) UCL	0.006
95% Modified-t UCL	0.0097	99% Chebyshev (MVUE) UCL	0.01
4			
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.29	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.0119		
nu star	5.211		······································
Approximate Chi Square Value (.05)	1.251	Nonparametric Statistics	on the other country to the country of the country
Adjusted Level of Significance	0.0231	95% CLT UCL	0.008
Adjusted Chi Square Value	0.892	95% Jackknife UCL	0.009
		95% Standard Bootstrap UCL	0.008
Anderson-Darling Test Statistic	1.687	95% Bootstrap-t UCL	0.189
Anderson-Darling 5% Critical Value	0.803	95% Hall's Bootstrap UCL	0.106
Kolmogorov-Smirnov Test Statistic	0.384	95% Percentile Bootstrap UCL	0.009
Kolmogorov-Smirnov 5% Critical Value	0.301	95% BCA Bootstrap UCL	0.012
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.017
		97.5% Chebyshev(Mean, Sd) UCL	0.022
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.034
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.0144		

Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.034
Recommended U	ICL exceeds	the maximum observation	
	General St	tatistics	
Number of Valid Samples	9	Number of Unique Samples	9
Raw Statistics	9	Log-transformed Statistics	
Minimum	3.32	Minimum of Log Data	1.2
Maximum	11.8	Maximum of Log Data	2.468
IMITITION	11.0		— , 100

Median	5.92	SD of log Data	0.48
SD	3.165		
Coefficient of Variation	0.473		
Skewness	0.508		
	Dolovant II	Ol Statistica	
Normal Distribution Test	Relevant O	CL Statistics Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.904	Shapiro Wilk Test Statistic	0.92
Shapiro Wilk Critical Value	0.829	Shapiro Wilk Critical Value	0.82
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	8.66	95% H-UCL	9.99
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	11.45
95% Adjusted-CLT UCL	8.624	97.5% Chebyshev (MVUE) UCL	13.5
95% Modified-t UCL	8.69	99% Chebyshev (MVUE) UCL	17.53
Gamma Distribution Test	41.74° - 48.1444, T T-2 T40° 514 (14° 544 81) handan i'an	Data Distribution	
k star (bias corrected)	3.458	Data appear Normal at 5% Significance Level	
Theta Star	1.937		
nu star	62.24		
Approximate Chi Square Value (.05)	45.09	Nonparametric Statistics	***************************************
Adjusted Level of Significance	0.0231	95% CLT UCL	8.43
Adjusted Chi Square Value	42.03	95% Jackknife UCL	8.66
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	95% Standard Bootstrap UCL	8.39
Anderson-Darling Test Statistic	0.361	95% Bootstrap-t UCL	9.07
Anderson-Darling 5% Critical Value	0.723	95% Hall's Bootstrap UCL	8.42
Kolmogorov-Smirnov Test Statistic	0.171	95% Percentile Bootstrap UCL	8.37
Kolmogorov-Smirnov 5% Critical Value	0.28	95% BCA Bootstrap UCL	8.62
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	11.3
	hand belle better better better better better better better better better better better better better better b	97.5% Chebyshev(Mean, Sd) UCL	13.29
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	17.2
95% Approximate Gamma UCL	9.245		
95% Adjusted Gamma UCL	9.918		
Potential UCL to Use		Use 95% Student's-t UCL	8.66
esult or 1/2 SDL (copper)			
	General	Statistics	**************************************
Number of Valid Samples	9	Number of Unique Samples	9
Raw Statistics		Log-transformed Statistics	······································
Minimum	2.68	Minimum of Log Data	0.98
Maximum	16.8	Maximum of Log Data	2.82
Mean	8.138	Mean of log Data	1.90
Median	6.87	SD of log Data	0.67
SD	5.165		
Coefficient of Variation	0.635		***************************************
Skewness	0.626		

	Relevant U	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	-
Shapiro Wilk Test Statistic	1	Shapiro Wilk Test Statistic	0.93
Shapiro Wilk Critical Value	ł	Shapiro Wilk Critical Value	0.82
Data appear Normal at 5% Significance Level	***************************************	Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution	pro-promisents and the state of the spanish decisions.	Assuming Lognormal Distribution	
95% Student's-t UCL	11.34	95% H-UCL	15.71
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	16.4
95% Adjusted-CLT UCL	11.35	97.5% Chebyshev (MVUE) UCL	19.95
95% Modified-t UCL	11.4	99% Chebyshev (MVUE) UCL	26.94
Gamma Distribution Test	······································	Data Distribution	
k star (bias corrected)	1.895	Data appear Normal at 5% Significance Level	
Theta Star	4.294		
nu star			er an annoted the second state of
Approximate Chi Square Value (.05)	21.76	Nonparametric Statistics	
Adjusted Level of Significance	0.0231		10.97
Adjusted Chi Square Value	19.7	95% Jackknife UCL	11.34
Adjusted of a oquate value	10.7	95% Standard Bootstrap UCL	10.88
Anderson-Darling Test Statistic	0.31	95% Bootstrap-t UCL	12.32
Anderson-Darling 5% Critical Value	0.728	95% Hall's Bootstrap UCL	11.26
Kolmogorov-Smirnov Test Statistic		95% Percentile Bootstrap UCL	10.93
Kolmogorov-Smirnov 5% Critical Value	0.177	95% BCA Bootstrap UCL	11.27
	1		15.64
Data appear Gamma Distributed at 5% Significance	Leve	95% Chebyshev(Mean, Sd) UCL	
		97.5% Chebyshev(Mean, Sd) UCL	18.89
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	25.27
95% Approximate Gamma UCL	12.76		
95% Adjusted Gamma UCL	14.09		
Potential UCL to Use		Use 95% Student's-t UCL	11.34
esult or 1/2 SDL (iron)			
	General	Statistics	annen er verste gerende er det
Number of Valid Samples	9	Number of Unique Samples	9
Raw Statistics		Log-transformed Statistics	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Minimum	7440	Minimum of Log Data	8.91
Maximum	27900	Maximum of Log Data	10.24
Mean	16496	Mean of log Data	9.59
Median	15000	SD of log Data	0.51
SD	8097	_	
Coefficient of Variation	0.491		
Skewness	0.325		
	Relevant I I	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.889	Shapiro Wilk Test Statistic	0.90
OHODIO WIIK TOSE GIGHSHU			0.00
Shapiro Wilk Critical Value	0.829	Shapiro Wilk Critical Value	0.82

	<u></u>		
Assuming Normal Distribution		Assuming Lognormal Distribution	****
95% Student's-t UCL	21515	95% H-UCL	
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	29179
95% Adjusted-CLT UCL		97.5% Chebyshev (MVUE) UCL	34648
95% Modified-t UCL	21563	99% Chebyshev (MVUE) UCL	45392
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	3.072	Data appear Normal at 5% Significance Level	
Theta Star	5370		
nu star	55.3		
Approximate Chi Square Value (.05)	39.21	Nonparametric Statistics	
Adjusted Level of Significance	0.0231	95% CLT UCL	20935
Adjusted Chi Square Value	36.37	95% Jackknife UCL	21515
		95% Standard Bootstrap UCL	20682
Anderson-Darling Test Statistic	0.415	95% Bootstrap-t UCL	22181
Anderson-Darling 5% Critical Value	0.724	95% Hall's Bootstrap UCL	20333
Kolmogorov-Smirnov Test Statistic	0.177	95% Percentile Bootstrap UCL	20913
Kolmogorov-Smirnov 5% Critical Value	0.28	95% BCA Bootstrap UCL	21189
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	28260
		97.5% Chebyshev(Mean, Sd) UCL	33351
Assuming Gamma Distribution	*	99% Chebyshev(Mean, Sd) UCL	43351
95% Approximate Gamma UCL	23264		
95% Adjusted Gamma UCL	25080		
Potential UCL to Use		Use 95% Student's-t UCL	21515
ult or 1/2 SDL (lead)	Consol		
ult or 1/2 SDL (lead) Number of Valid Samples	General Si	tatistics Number of Unique Samples	9
Number of Valid Samples	y	Number of Unique Samples	
Number of Valid Samples Raw Statistics	9	Number of Unique Samples Log-transformed Statistics	9
Number of Valid Samples Raw Statistics Minimum	5.34	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	9
Number of Valid Samples Raw Statistics Minimum Maximum	5.34 14.5	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	9 1.67 2.67
Number of Valid Samples Raw Statistics Minimum Maximum Mean	5.34 14.5 9.587	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	9 1.67 2.67 2.19
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	5.34 14.5 9.587 9.2	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	9 1.67 2.67
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	5.34 14.5 9.587 9.2 3.603	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	9 1.67 2.67 2.19
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation	5.34 14.5 9.587 9.2 3.603 0.376	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	9 1.67 2.60 2.19
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	5.34 14.5 9.587 9.2 3.603	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	9 1.67 2.60 2.19
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	5.34 14.5 9.587 9.2 3.603 0.376	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	9 1.67 2.67 2.19
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test	9 5.34 14.5 9.587 9.2 3.603 0.376 0.161	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test	9 1.67 2.67 2.19 0.39
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic	9 5.34 14.5 9.587 9.2 3.603 0.376 0.161 Relevant UCL 0.898	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic	9 1.67 2.67 2.19 0.38
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test	9 5.34 14.5 9.587 9.2 3.603 0.376 0.161	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test	9 1.67 2.67 2.19 0.39 0.90 0.82
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level	9 5.34 14.5 9.587 9.2 3.603 0.376 0.161 Relevant UCL 0.898	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level	9 1.67 2.67 2.19 0.39 0.90 0.82
Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness I Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	9 5.34 14.5 9.587 9.2 3.603 0.376 0.161 Relevant UCL 0.898	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	9 1.67 2.67 2.19 0.39 0.90 0.82
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness I Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution	9 5.34 14.5 9.587 9.2 3.603 0.376 0.161 Relevant UCL	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution	9 1.67 2.67 2.19 0.39 0.90 0.82

	Distantian de		MATERIAL S
DE9/ Modified + LICT	11.83	99% Chebyshev (MVUE) UCL	22.23
95% Modified-t UCL	11.03	99% Chebyshev (WVOE) OCL	22.23
Gamma Distribution Test	•	Data Distribution	***************************************
k star (bias corrected)	5.179	Data appear Normal at 5% Significance Level	
Theta Star	1.851		
nu star	93.21		
Approximate Chi Square Value (.05)	71.95	Nonparametric Statistics	
Adjusted Level of Significance	0.0231		11.56
Adjusted Chi Square Value	68.02	95% Jackknife UCL	11.82
		95% Standard Bootstrap UCL	11.48
Anderson-Darling Test Statistic	0.417	95% Bootstrap-t UCL	12.11
Anderson-Darling 5% Critical Value	0.722	95% Hall's Bootstrap UCL	11.28
Kolmogorov-Smirnov Test Statistic	0.182	95% Percentile Bootstrap UCL	11.45
Kolmogorov-Smirnov 5% Critical Value	0.28	95% BCA Bootstrap UCL	11.54
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	14.82
		97.5% Chebyshev(Mean, Sd) UCL	17.09
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	21.54
95% Approximate Gamma UCL	12.42	, , , , , , , , , , , , , , , , , , , ,	
95% Adjusted Gamma UCL	13.14		
Potential UCL to Use		Use 95% Student's-t UCL	11.82
Number of Valid Samples	9	Number of Unique Samples	9
Raw Statistics			
1 law Claustics		Logstransformed Statistics	**************************************
	7 29	Log-transformed Statistics Minimum of Log Data	1 98
Minimum	7.29 44.6	Minimum of Log Data	
Minimum Maximum	44.6	Minimum of Log Data Maximum of Log Data	3.79
Minimum Maximum Mean	44.6 21.4	Minimum of Log Data Maximum of Log Data Mean of log Data	3.79 2.85
Minimum Maximum Mean Median	44.6 21.4 17.1	Minimum of Log Data Maximum of Log Data	3.79 2.85
Minimum Maximum Mean Median SD	44.6 21.4 17.1 14.41	Minimum of Log Data Maximum of Log Data Mean of log Data	3.79 2.85
Minimum Maximum Mean Median	44.6 21.4 17.1 14.41 0.673	Minimum of Log Data Maximum of Log Data Mean of log Data	3.79 2.85
Minimum Maximum Mean Median SD Coefficient of Variation	44.6 21.4 17.1 14.41	Minimum of Log Data Maximum of Log Data Mean of log Data	1.98 3.79 2.85 0.69
Minimum Maximum Mean Median SD Coefficient of Variation Skewness	44.6 21.4 17.1 14.41 0.673 0.724	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	3.79 2.85
Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test	44.6 21.4 17.1 14.41 0.673 0.724	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data CL Statistics Lognormal Distribution Test	3.79 2.85 0.69
Minimum Maximum Mean Median SD Coefficient of Variation Skewness	44.6 21.4 17.1 14.41 0.673 0.724	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data CL Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic	3.79 2.85 0.69
Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	44.6 21.4 17.1 14.41 0.673 0.724	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data CL Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	3.79 2.85 0.69 0.91 0.82
Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic	44.6 21.4 17.1 14.41 0.673 0.724 Relevant UC	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data CL Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic	3.79 2.85 0.69 0.91 0.82
Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level	44.6 21.4 17.1 14.41 0.673 0.724 Relevant UC	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data CL Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level	3.79 2.85 0.69 0.91 0.82
Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution	44.6 21.4 17.1 14.41 0.673 0.724 Relevant UC 0.868 0.829	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data CL Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution	0.91 0.82
Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	44.6 21.4 17.1 14.41 0.673 0.724 Relevant UC	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data CL Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	3.79 2.85 0.69 0.91 0.82
Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	44.6 21.4 17.1 14.41 0.673 0.724 Relevant UC 0.868 0.829	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data CL Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	3.79 2.85 0.69 0.91 0.82 42.41 43.59
Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	44.6 21.4 17.1 14.41 0.673 0.724 Relevant UC 0.868 0.829	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data CL Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	0.91 0.82 42.41 43.59
Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	44.6 21.4 17.1 14.41 0.673 0.724 Relevant UC 0.868 0.829	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data CL Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	0.91 0.82 42.41 43.59
Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	44.6 21.4 17.1 14.41 0.673 0.724 Relevant UC 0.868 0.829	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log	3.79 2.85 0.69 0.91 0.82
Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL	44.6 21.4 17.1 14.41 0.673 0.724 Relevant UC 0.868 0.829 30.33	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log	0.91 0.82 42.41 43.59
Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	44.6 21.4 17.1 14.41 0.673 0.724 Relevant UC 0.868 0.829	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log	0.9° 0.82 42.4° 43.59 53.19

Manager garager and the	an Geriffelder (1884), part a sect again the part figure, their old of the extension for the ex-	Transfer et al ment	Page of Table 2015年 Magazin Table 2015	tilluse man den e me
		21.62		
	nu star Approximate Chi Square Value (.05)		Nannarametria Ct-4'-4'	
	Approximate Chi Square Value (.05) Adjusted Level of Significance	<u> </u>	Nonparametric Statistics 95% CLT UCL	29.3
	Adjusted Chi Square Value	<u> </u>	95% CLT UCL 95% Jackknife UCL	30.33
	Aujusted Citi Square Value	17.03	95% Jackknie UCL 95% Standard Bootstrap UCL	28.98
	Anderson-Darling Test Statistic	0.391	95% Standard Bootstrap UCL 95% Bootstrap-t UCL	28.98 32.35
			· .	32.35
***************************************	Anderson-Darling 5% Critical Value	0.728	95% Hall's Bootstrap UCL	
······································	Kolmogorov-Smirnov Test Statistic		95% Percentile Bootstrap UCL	29.69 30.27
D-1-	Kolmogorov-Smirnov 5% Critical Value	0.282	95% BCA Bootstrap UCL	
Data 8	appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL	42.33 51.39
hallanka vollan mana vanavolas keepilladaks	Accuming Commo Distribution			-
	Assuming Gamma Distribution	24.00	99% Chebyshev(Mean, Sd) UCL	69.18
	95% Approximate Gamma UCL	34.22		
	95% Adjusted Gamma UCL	37.96		adji bili mada mijiyadi ka giran ar basiyat ba kinagara
	Potential UCL to Use		Use 95% Student's-t UCL	30.33
Result or 1	'2 SDL (manganese)			
		Ganara!	Statistics	mpunnandida urawani
	Number of Valid Samples	General 9	Number of Unique Samples	9
	number of valid Samples	J	raumber of offique samples	<i>3</i>
-Marinety of Processing Association	Raw Statistics		Log-transformed Statistics	
	Minimum	212	Minimum of Log Data	5.357
	Maximum	442	Maximum of Log Data	6.091
	Mean	330.7	Mean of log Data	5.767
	Median	321	SD of log Data	0.284
	wedian SD	88.99	OD OI log Data	0.204
	Coefficient of Variation	0.269		
at to the terroid and action to	Skewness	-0.147		
***************************************	CREWITESS	-J. 1 -1 /		#
	1	Relevant UC	CL Statistics	***************************************
	Normal Distribution Test		Lognormal Distribution Test	***************************************
	Shapiro Wilk Test Statistic	0.909	Shapiro Wilk Test Statistic	0.899
	Shapiro Wilk Critical Value	0.829	Shapiro Wilk Critical Value	0.829
······································	Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	
	Assuming Normal Distribution		Assuming Lognormal Distribution	***************************************
	95% Student's-t UCL	385.8	95% H-UCL	406.9
	95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	468.4
	95% Adjusted-CLT UCL	377.9	97.5% Chebyshev (MVUE) UCL	527.8
	95% Modified-t UCL	385.6	99% Chebyshev (MVUE) UCL	644.6
	Gamma Distribution Test		Data Distribution	· Furuitassa variatis (Santificantes de la contractica del la contractica del la contractica de la contractica de la contractica de la contractica de la contractica de la contractica de la contractica de la contractica de la contractica de la contractica de la contractica de la contractica de la contractica de la contractica de la contractica de la contractica de la con
	k star (bias corrected)	9.817	Data appear Normal at 5% Significance Level	
17 - 18 P. Marian at the Space State of the Space S	Theta Star	33.68		
	nu star	176.7		
	Approximate Chi Square Value (.05)	147	Nonparametric Statistics	
	Adjusted Level of Significance	0.0231	95% CLT UCL	379.5
	Adjusted Chi Square Value	141.2	95% Jackknife UCL	385.8
			95% Standard Bootstrap UCL	376.9

	va state v		A marel of the book of the state of the stat
Anderson-Darling Test Statistic	0.414	95% Bootstrap-t UCL	383.3
Anderson-Darling 5% Critical Value	0.721	95% Hall's Bootstrap UCL	371.3
Kolmogorov-Smirnov Test Statistic	0.197	95% Percentile Bootstrap UCL	379.1
Kolmogorov-Smirnov 5% Critical Value	0.279	95% BCA Bootstrap UCL	377.7
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	460
		97.5% Chebyshev(Mean, Sd) UCL	515.9
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	625.8
95% Approximate Gamma UCL	397.6		
95% Adjusted Gamma UCL	413.7	·	
Potential UCL to Use		Use 95% Student's-t UCL	385.8
esult or 1/2 SDL (mercury)			
	General :	Statistics	
Number of Valid Samples	9	Number of Unique Samples	8
Raw Statistics		Log-transformed Statistics	
Minimum	0.0065		-5.036
Maximum	0.05	Maximum of Log Data	-2.996
Mean	0.0176	Mean of log Data	-4.227
Median	0.016	SD of log Data	0.61
SD	0.0132		4-74-44-5-144-44-4-4-4-4-4-4-4-4-4-4-4-4-4-
Coefficient of Variation	0.753		
· Skewness	2.163		
F	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	ann ann ann ann an Airle agus ainm ainm an se
Shapiro Wilk Test Statistic	0.752	Shapiro Wilk Test Statistic	0.94
Shapiro Wilk Critical Value	0.829	Shapiro Wilk Critical Value	0.82
Data not Normal at 5% Significance Level	Market Caracter Construction of the Assessment of the Assessment of the Assessment of the Assessment of the As	Data appear Lognormal at 5% Significance Leve	4
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0258	95% H-UCL	0.03
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.03
95% Adjusted-CLT UCL	0.0282	97.5% Chebyshev (MVUE) UCL	0.03
95% Modified-t UCL	0.0263	99% Chebyshev (MVUE) UCL	0.05
Gamma Distribution Test		Data Distribution	manning and and an annual second
k star (bias corrected)	1.962	Data appear Gamma Distributed at 5% Significance	Level
Theta Star	0.0089		
nu star	35.32		
Approximate Chi Square Value (.05)	22.73	Nonparametric Statistics	
Adjusted Level of Significance	0.0231	95% CLT UCL	0.02
Adjusted Chi Square Value	20.62	95% Jackknife UCL	0.02
		95% Standard Bootstrap UCL	0.02
Anderson-Darling Test Statistic	0.431	95% Bootstrap-t UCL	0.03
Anderson-Darling 5% Critical Value	0.727	95% Hall's Bootstrap UCL	0.05
Kolmogorov-Smirnov Test Statistic	0.184	95% Percentile Bootstrap UCL	0.02
Kolmogorov-Smirnov 5% Critical Value	0.282	95% BCA Bootstrap UCL	0.02
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	0.03

1980 September Berger and State Control of the Cont	.]et.Z. eggara harri	Before Come a control for early and to the first of the sound consider the control temperature for the control	
		97.5% Chebyshev(Mean, Sd) UCL	0.04
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.04
95% Approximate Gamma UCL	0.0273		0.00
95% Adjusted Gamma UCL	0.0273		
Potential UCL to Use		Lice OFW Approximate Commo LICI	0.02
Potential OCL to Ose	· · · · · · · · · · · · · · · · · · ·	Use 95% Approximate Gamma UCL	0.02
sult or 1/2 SDL (molybdenum)			tergetterski blekerike med
	General	Statistics	
Number of Valid Samples	9	Number of Unique Samples	9
Raw Statistics		Log-transformed Statistics	
Minimum	0.16	Minimum of Log Data	-1.833
Maximum	0.35	Maximum of Log Data	-1.05
Mean	0.241	Mean of log Data	-1.45
Median	0.24	SD of log Data	0.28
SD	0.0675		
Coefficient of Variation	0.28		
Skewness	0.35		
	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.936	Shapiro Wilk Test Statistic	0.94
Shapiro Wilk Critical Value	0.829	Shapiro Wilk Critical Value	0.82
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.283	95% H-UCL	0.29
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.34
95% Adjusted-CLT UCL	0.281	97.5% Chebyshev (MVUE) UCL	0.38
95% Modified-t UCL	0.283	99% Chebyshev (MVUE) UCL	0.46
Gamma Distribution Test	***************************************	Data Distribution	TrybHad (Hassaca)
k star (bias corrected)	9.681	Data appear Normal at 5% Significance Level	****
Theta Star	0.0249		alerterio describito de la companya
nu star	174.3		rutur _e atemperatur
Approximate Chi Square Value (.05)	144.7	Nonparametric Statistics	
Adjusted Level of Significance	0.0231	95% CLT UCL	0.27
Adjusted Chi Square Value	139	95% Jackknife UCL	0.28
		95% Standard Bootstrap UCL	0.27
Anderson-Darling Test Statistic	0.283	95% Bootstrap-t UCL	0.29
Anderson-Darling 5% Critical Value	0.721	95% Hall's Bootstrap UCL	0.2
Kolmogorov-Smirnov Test Statistic	0.167	95% Percentile Bootstrap UCL	0.2
Kolmogorov-Smirnov 5% Critical Value	0.279	95% BCA Bootstrap UCL	0.2
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	0.3
		97.5% Chebyshev(Mean, Sd) UCL	0.38
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.46
95% Approximate Gamma UCL	0.29		
95% Adjusted Gamma UCL	0.302		

Potential UCL to Use	<u> </u>	Use 95% Student's-t UCL	0.28
sult or 1/2 SDL (nickel)			
	General Stat	istics	
Number of Valid Samples	9	Number of Unique Samples	9
Raw Statistics		Log-transformed Statistics	aftelakka amerippi merayean
Minimum	6.31	Minimum of Log Data	1.8
Maximum	27.3	Maximum of Log Data	3.3
Mean	14.91	Mean of log Data	2.5
Median	13	SD of log Data	0.5
SD	8.111		**************************************
Coefficient of Variation	0.544		************
Skewness	0.452		
F	Relevant UCL S	Statistics	-
Normal Distribution Test		Lognormal Distribution Test	***************************************
Shapiro Wilk Test Statistic	0.892	Shapiro Wilk Test Statistic	0.9
Shapiro Wilk Critical Value	0.829	Shapiro Wilk Critical Value	0.8
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	19.94	95% H-UCL	24.8
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	27.5
95% Adjusted-CLT UCL	19.79	97.5% Chebyshev (MVUE) UCL	33.0
95% Modified-t UCL	20.01	99% Chebyshev (MVUE) UCL	43.7
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	2.55	Data appear Normal at 5% Significance Level	
Theta Star	5.847	Data appear Hornia at 0% digitime and Ector	
nu star	45.91		
Approximate Chi Square Value (.05)	31.36	Nonparametric Statistics	··· Princip and dedicates and
Adjusted Level of Significance	0.0231	95% CLT UCL	19.3
Adjusted Chi Square Value	28.85	95% Jackknife UCL	19.9
		95% Standard Bootstrap UCL	19.0
Anderson-Darling Test Statistic	0.395	95% Bootstrap-t UCL	20.3
Anderson-Darling 5% Critical Value	0.725	95% Hall's Bootstrap UCL	19.0
Kolmogorov-Smirnov Test Statistic	0.172	95% Percentile Bootstrap UCL	19.1
Kolmogorov-Smirnov 5% Critical Value	0.281	95% BCA Bootstrap UCL	19.2
Data appear Gamma Distributed at 5% Significance	l l	95% Chebyshev(Mean, Sd) UCL	26.7
		97.5% Chebyshev(Mean, Sd) UCL	31.8
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	41.8
95% Approximate Gamma UCL	21.83	. , ,	
95% Adjusted Gamma UCL	23.73		
Potential UCL to Use		Use 95% Student's-t UCL	19.9

	Minipalys Shire in a name of the second of t	General	Statistics			
Number	of Valid Samples	9			Number of Unique Samples	9
Raw Statistic	?S			l og-trar	sformed Statistics	
	Minimum	34.8			Minimum of Log Data	3.55
	Maximum	87.4		er broth opposite and the survey of the surv	Maximum of Log Data	Į.
	Mean	59.17		H Martin Land Martin Salding States of the second subsequence in the second subsequence of the s	Mean of log Data	1
	Median	59.3			SD of log Data	<u> </u>
	SD	22.06				
Coef	icient of Variation	0.373		and the Merchanian and the second state of the	responsibilities in Alexandria metalonica in consequencia antica antica di traversi in consecuente	
	Skewness	0.141		96 1 hg. 1 mg. 1 f days		
тем и тем от тем от тем от тем от тем от тем от тем от тем от тем от тем от тем от тем от тем от тем от тем от		Relevant U	CL Statistics		Antimit familiar des familiar familiar de la matein de de ministration de Maria (Medical Campana de mateira de Antimit familiar de la familiar de la mateira de la mateira de de Maria (Medical Campana) de la mateira de mat	
Normal Distribution				Lognorm	al Distribution Test	
	Wilk Test Statistic	0.854			Shapiro Wilk Test Statistic	1
Shapiro V Data appear Normal at 5% S	Vilk Critical Value	0.829		oto gonoor Logno	Shapiro Wilk Critical Value rmal at 5% Significance Lev	l
Data appear Normal at 5% 3	oignificance Level		ט	ata appear Logno	rmai at 5% Significance Lev	/ei
Assuming Normal Di	stribution	жининенципонновани		Assuming L	ognormal Distribution	***************************************
	6 Student's-t UCL	72.84			95% H-UCL	80.08
95% UCLs (Adjusted for				95	5% Chebyshev (MVUE) UCL	92.89
	djusted-CLT UCL	71.63			5% Chebyshev (MVUE) UCL	<u> </u>
	% Modified-t UCL	72.9			9% Chebyshev (MVUE) UCL	
					and the state of t	1
Gamma Distributio	on Test	angle blatt folker and the order land, of the same land, sugfree annual se		Dat	a Distribution	
k sta	r (bias corrected)	5.29		Data appear Nom	nal at 5% Significance Leve	
	Theta Star	11.18			mann Maldona Octoriorin sa tamarda del maldon metro di basa della metro della segli	VI
	nu star	95.22			ya Marajan iya aya aya aya aya da ah bada san da da da da da da da da da da da da da	
Approximate Chi S	quare Value (.05)	73.71		Nonpar	ametric Statistics	
Adjusted Lev	el of Significance	0.0231		The section of the se	95% CLT UCL	71.26
Adjusted	Chi Square Value	69.73		ar garanti and an include and a brail and an garage agg, discover and an an	95% Jackknife UCL	72.84
				9	5% Standard Bootstrap UCL	70.57
Anderson-Dai	ling Test Statistic	0.641			95% Bootstrap-t UCL	73.19
Anderson-Darling	5% Critical Value	0.722		general consistence consistence consistence and consistence and an amount of the consistence of the consistence	95% Hall's Bootstrap UCL	68.52
Kolmogorov-Smir	nov Test Statistic	0.247		95	% Percentile Bootstrap UCL	70.6
Kolmogorov-Smirnov	5% Critical Value	0.28			95% BCA Bootstrap UCL	i
Data appear Gamma Distributed a	5% Significance	Level			Chebyshev(Mean, Sd) UCL	91.22
					Chebyshev(Mean, Sd) UCL	105.1
Assuming Gamma D	-4	THE PROPERTY OF THE PROPERTY O		99%	Chebyshev(Mean, Sd) UCL	132.3
	ate Gamma UCL	76.43		portugues and the second secon		
95% Adjus	ted Gamma UCL	80.79	Approximation and an age of		er andre ser en species segment segment segment segment segment segment segment segment segment segment segmen	
Potential UCL to	Use				Use 95% Student's-t UCL	72.84
Result or 1/2 SDL (titanium)	Use				Use 95% Student's-t UCL	/2.8
		General	Statistics			·
Number	of Valid Samples	9	M. Partie William Sandaha Artico.		Number of Unique Samples	9
Raw Statistic	S		and Withdraw With the special stands of release states	Log-tran	sformed Statistics	
	Minimum	21.1			Minimum of Log Data	3.049

ta 3.9 ta 3.4 ta 0.2 tia 0.9 ciic 0.9 ue 0.8 evel CL 39.3 CL 45.4 CL 51.3
ta 0.2 tic 0.9 ue 0.8 evel 0.8 cL 39.3 cL 45.4 cL 51.3
CL 39.3 CL 45.4 CL 51.3
DL 39.3 CL 45.4 CL 51.3
DL 39.3 CL 45.4 CL 51.3
DL 39.3 CL 45.4 CL 51.3
DL 39.3 CL 45.4 CL 51.3
DL 39.3 CL 45.4 CL 51.3
DL 39.3 CL 45.4 CL 51.3
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CL 39.3 CL 45.4 CL 51.3
CL 39.3 CL 45.4 CL 51.3
CL 45.4 CL 51.3
CL 45.4 CL 51.3
CL 51.3
CL 63.0

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L 37.5
L 38.2
L 37.2
L 71.0
L 37.5
L 39.2
L 47.0
L 53.6
L 66.5
L 38.2
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and V Aviillia or Thomas de la company
ta -8.85
a -4.14
ta -4.14 ta -7.53
ta -7.53
le

Skewness	2.966		* [/:
	Relevant UC	CL Statistics	
Normal Distribution Test	Y	Lognormal Distribution Test	
Shapiro Wilk Test Statistic		Shapiro Wilk Test Statistic	0.8
Shapiro Wilk Critical Value	0.829	Shapiro Wilk Critical Value	0.8
Data not Normal at 5% Significance Level	***************************************	Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution	<u>, , , , , , , , , , , , , , , , , , , </u>	Assuming Lognormal Distribution	
95% Student's-t UCL	0.0053	95% H-UCL	0.0
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0
95% Adjusted-CLT UCL	0.0068	97.5% Chebyshev (MVUE) UCL	0.0
95% Modified-t UCL	0.0056	99% Chebyshev (MVUE) UCL	0.0
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.378	Data appear Lognormal at 5% Significance Level	
K star (blas corrected) Theta Star	0.378	Data appear Logitoffila at 3 % Significance Level	
nu star	6.802		······································
Approximate Chi Square Value (.05)	2.063		
Adjusted Level of Significance		Nonparametric Statistics 95% CLT UCL	0.0
	0.0231	95% CET OCL 95% Jackknife UCL	0.0
Adjusted Chi Square Value	1.558		0.0
	4.040	95% Standard Bootstrap UCL	
Anderson-Darling Test Statistic	1.313	95% Bootstrap-t UCL	0.0
Anderson-Darling 5% Critical Value	0.779	95% Hall's Bootstrap UCL	0.0
Kolmogorov-Smirnov Test Statistic	0.319	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.296	95% BCA Bootstrap UCL	0.0
Data not Gamma Distributed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL	0.0
		97.5% Chebyshev(Mean, Sd) UCL	0.0
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0
95% Approximate Gamma UCL	0.0072		
95% Adjusted Gamma UCL	0.0095		
Potential UCL to Use		Use 95% Chebyshev (MVUE) UCL	0.0
sult or 1/2 SDL (vanadium)			
	General S	Statistics	
Number of Valid Samples	9	Number of Unique Samples	9
Raw Statistics	aa (mar - 44,5	Log-transformed Statistics	
Minimum	10.2	Minimum of Log Data	2.3
. Maximum	34.2	Maximum of Log Data	3.5
Mean	20.21	Mean of log Data	2.9
Median	19.1	SD of log Data	0.4
SD	9.135		
Coefficient of Variation	0.452		
Skewness	0.468		
	Relevant UC	CL Statistics	~
Normal Distribution Test		Lognormal Distribution Test	1. Antonyo 14 To beau to et
Shapiro Wilk Test Statistic	0.9	Shapiro Wilk Test Statistic	0.9

	1	Data appear Lognormal at 5% Significance Leve	
Data appear Normal at 5% Significance Level		Data appear Logitoma at 0.6 Significance Leve	·
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	25.87	95% H-UCL	29.5
95% UCLs (Adjusted for Skewness)	L	95% Chebyshev (MVUE) UCL	33.92
95% Adjusted-CLT UCL	25.73	97.5% Chebyshev (MVUE) UCL	39.86
95% Modified-t UCL	25.95	99% Chebyshev (MVUE) UCL	51.5
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	3.758	Data appear Normal at 5% Significance Level	······································
Theta Star	5.378		
nu star	67.64		
Approximate Chi Square Value (.05)	49.71	Nonparametric Statistics	
Adjusted Level of Significance	0.0231	95% CLT UCL	25.22
Adjusted Chi Square Value	46.49	95% Jackknife UCL	25.87
		95% Standard Bootstrap UCL	25
Anderson-Darling Test Statistic	0.366	95% Bootstrap-t UCL	26.93
Anderson-Darling 5% Critical Value	0.723	95% Hall's Bootstrap UCL	25.0
Kolmogorov-Smirnov Test Statistic	0.183	95% Percentile Bootstrap UCL	25.0
Kolmogorov-Smirnov 5% Critical Value	0.28	95% BCA Bootstrap UCL	25.46
Data appear Gamma Distributed at 5% Significance		95% Chebyshev(Mean, Sd) UCL	33.48
		97.5% Chebyshev(Mean, Sd) UCL	39.23
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	50.5
95% Approximate Gamma UCL	27.5		
95% Adjusted Gamma UCL	29.41		
Potential UCL to Use		Use 95% Student's-t UCL	25.87
It or 1/2 SDL (xylene (total))			
	General S	Statistics	APITETTI TI ZETEVETEN
Number of Valid Samples	9	Number of Unique Samples	9
Raw Statistics	***************************************	Log-transformed Statistics	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
LIGA SIGNATICS	4.6250E-4	Minimum of Log Data	-7.679
	0.0044	Maximum of Log Data	-5.414
	0.0017	Mean of log Data	-6.668
Minimum		SD of log Data	0.86
Minimum Maximum	0.0010		
Minimum Maximum Mean	0.0010		
Minimum Maximum Mean Median			
Minimum Maximum Mean Median SD	0.0014		
Minimum Maximum Mean Mean Median SD Coefficient of Variation Skewness	0.0014 0.818	L Statistics	
Minimum Maximum Mean Mean Median SD Coefficient of Variation Skewness	0.0014 0.818 0.955	L Statistics Lognormal Distribution Test	
Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0014 0.818 0.955		0.90
Minimum Maximum Mean Mean Median SD Coefficient of Variation Skewness	0.0014 0.818 0.955 Relevant UC	Lognormal Distribution Test	
Minimum Maximum Mean Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic	0.0014 0.818 0.955 Relevant UC	Lognormal Distribution Test Shapiro Wilk Test Statistic	0.82
Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.0014 0.818 0.955 Relevant UC	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.90

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95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.004
95% Adjusted-CLT UCL	0.0027	97.5% Chebyshev (MVUE) UCL	0.00
95% Modified-t UCL	0.0026	99% Chebyshev (MVUE) UCL	0.00
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.218	Data appear Normal at 5% Significance Level	
Theta Star	0.0014		-BUT-THE QUITE THE
nu star	21.93		
Approximate Chi Square Value (.05)	12.29	Nonparametric Statistics	
Adjusted Level of Significance	0.0231	95% CLT UCL	0.00
Adjusted Chi Square Value	10.79	95% Jackknife UCL	0.00
		95% Standard Bootstrap UCL	0.00
Anderson-Darling Test Statistic	0.43	95% Bootstrap-t UCL	0.00
Anderson-Darling 5% Critical Value	0.732	95% Hall's Bootstrap UCL	0.00
Kolmogorov-Smirnov Test Statistic	0.194	95% Percentile Bootstrap UCL	0.00
Kolmogorov-Smirnov 5% Critical Value	0.283	95% BCA Bootstrap UCL	0.00
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	0.00
		97.5% Chebyshev(Mean, Sd) UCL	0.00
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.00
95% Approximate Gamma UCL	0.0031		,,
95% Adjusted Gamma UCL	0.0035		
Potential UCL to Use		Use 95% Student's-t UCL	0.00
ult or 1/2 SDL (zinc)			
	General S		9
ult or 1/2 SDL (zinc) Number of Valid Samples		Number of Unique Samples	9
			9
Number of Valid Samples		Number of Unique Samples Log-transformed Statistics Minimum of Log Data	9
Number of Valid Samples Raw Statistics	9 19.3 54.1	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	2.96 3.99
Number of Valid Samples Raw Statistics Minimum	9	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	2.96
Number of Valid Samples Raw Statistics Minimum Maximum	9 19.3 54.1 36.04 34.1	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	2.96 3.99 3.51
Raw Statistics Minimum Maximum Mean Median SD	9 19.3 54.1 36.04 34.1 13.68	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	2.96 3.99 3.51
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation	9 19.3 54.1 36.04 34.1 13.68 0.379	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	2.96 3.99 3.51
Raw Statistics Minimum Maximum Mean Median SD	9 19.3 54.1 36.04 34.1 13.68	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	2.96 3.99 3.51
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	9 19.3 54.1 36.04 34.1 13.68 0.379	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	2.96
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	9 19.3 54.1 36.04 34.1 13.68 0.379 0.0735	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	2.96 3.99 3.51
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	9 19.3 54.1 36.04 34.1 13.68 0.379 0.0735	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	2.96 3.99 3.51 0.40
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	9 19.3 54.1 36.04 34.1 13.68 0.379 0.0735	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test	2.96 3.99 3.51 0.40
Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic	9 19.3 54.1 36.04 34.1 13.68 0.379 0.0735 Relevant UC	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic	2.96 3.99 3.51 0.40 0.89
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	9 19.3 54.1 36.04 34.1 13.68 0.379 0.0735 Relevant UC	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data	2.96 3.99 3.51 0.40 0.89
Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level	9 19.3 54.1 36.04 34.1 13.68 0.379 0.0735 Relevant UC	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data Data appear Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level	2.96 3.99 3.51 0.40 0.89 0.82
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution	9 19.3 54.1 36.04 34.1 13.68 0.379 0.0735 Relevant UC 0.901 0.829	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	2.96 3.99 3.51 0.40 0.89 0.82
Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	9 19.3 54.1 36.04 34.1 13.68 0.379 0.0735 Relevant UC 0.901 0.829	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SL Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	2.96 3.99 3.51 0.40 0.89
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Finance Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	9 19.3 54.1 36.04 34.1 13.68 0.379 0.0735 Relevant UC 0.901 0.829	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	2.96 3.99 3.51 0.40 0.89 0.82 49.64 57.54

k star (bias corrected) 4.975	Data appear Normal at 5% Significance Level	
Theta Star 7.246		
nu star 89.54		
Approximate Chi Square Value (.05) 68.73	Nonparametric Statistics	
Adjusted Level of Significance 0.0231	95% CLT UCL	43.5
Adjusted Chi Square Value 64.89	95% Jackknife UCL	44.5
	95% Standard Bootstrap UCL	42.9
Anderson-Darling Test Statistic 0.426	95% Bootstrap-t UCL	44.5
Anderson-Darling 5% Critical Value 0.722	95% Hall's Bootstrap UCL	42.2
Kolmogorov-Smirnov Test Statistic 0.197	95% Percentile Bootstrap UCL	42.9
Kolmogorov-Smirnov 5% Critical Value 0.28	95% BCA Bootstrap UCL	43.5
pear Gamma Distributed at 5% Significance Level	95% Chebyshev(Mean, Sd) UCL	55.9
	97.5% Chebyshev(Mean, Sd) UCL	64.5
Assuming Gamma Distribution	99% Chebyshev(Mean, Sd) UCL	81.4
95% Approximate Gamma UCL 46.96		
95% Adjusted Gamma UCL 49.74		
Potential UCL to Use	Use 95% Student's-t UCL	44.5

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APPENDIX A-8

NORTH OF MARLIN SEDIMENT

		lubatai ac		
	General UCL Statistic	s for Full Da	ta Sets	
User Selected Options)			
From File	J:\1352 - Gulfco RI\risk	(\data querie	es oct 07\EPC tables with onehalf DL\Copy of north wetland	detection
Full Precision	OFF	atteriote Warring verse to Welfale		
Confidence Coefficient	95%			1-1-14 q-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
Number of Bootstrap Operations	2000 ·			··
Result or 1/2 SDL (1,2-dichloroet	hane)			
	and a second second second second second second second second second second second second second second second	General	Statistics	
N	umber of Valid Samples	48	Number of Unique Samples	40
Raw S	tatistics	,	Log-transformed Statistics	·
	Minimum	6.1500E-5	Minimum of Log Data	-9.696
code de cripe di della carga cripe e con constitución com en en esta del CECCA di Cella di Albanda con escribe	Maximum	0.0024	Maximum of Log Data	-6.032
	Mean	2.4915E-4	Mean of log Data	-9.1
Market varietist - <u>au</u>tisis esisten is said peris - <u>Autisistik barket dela dela dela dela said dela sa</u>	Median	7.6250E-5	SD of log Data	0.927
terber dat mest has nere en er en en en en en en en en en en en en en	SD	5.4106E-4		
esterneturus inchristrator etambandurus mendenturus mendenturus dere etambandurus erritaturus dere etambandurus	Coefficient of Variation	2.172		***************************************
	Skewness	3.34		
		Relevant U	CL Statistics	**************************************
Normal Dist	tribution Test	**************************************	Lognormal Distribution Test	der von 1900-1904 (1904 (1904 (1904 (1904 (1904 (1904 (1904 (1904 (1904 (1904 (1904 (1904 (1904 (1904 (1904 (1
Sh	apiro Wilk Test Statistic	0.373	Shapiro Wilk Test Statistic	0.564
Sh	apiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.947
Data not Normal at 5	5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Nor	mal Distribution	10.111/11.111.011.011.011.01.011.01.01.01.01.01	Assuming Lognormal Distribution	
THE COURT OF THE COURT CARRY SAME THE COURT SHARE THE COURT OF THE COURT OF THE COURT SAME THE COURT SHARE THE	95% Student's-t UCL	3.8018E-4	95% H-UCL	2.3239E-
95% UCLs (Adju	sted for Skewness)	<u> </u>	95% Chebyshev (MVUE) UCL	2.8326E-
	95% Adjusted-CLT UCL	4.1783E-4	97.5% Chebyshev (MVUE) UCL	3.3255E-4
	95% Modified-t UCL	3.8646E-4	99% Chebyshev (MVUE) UCL	4.2936E-4
Gamma Dis	tribution Test		Data Distribution	ar sprikter (kontroller server se
and the state of the second state of the secon	k star (bias corrected)	0.713	Data do not follow a Discernable Distribution (0.0	5)
Hannillan ila inggilipida ila ila da da alla agai sa anti ila di da da da anti ila da da anti ila da da anti i	Theta Star	3.4927E-4		***************************************
With the was a second to the second s	nu star	68.48		***************************************
Approximate	Chi Square Value (.05)	50.43	Nonparametric Statistics	
Adjust	ed Level of Significance	0.045	95% CLT UCL	
Adj	usted Chi Square Value	49.95	95% Jackknife UCL	
- Walden Bell in being			95% Standard Bootstrap UCL	
	on-Darling Test Statistic	11.29	95% Bootstrap-t UCL	
	arling 5% Critical Value	0.792	95% Hall's Bootstrap UCL	
	v-Smirnov Test Statistic	0.392	95% Percentile Bootstrap UCL	
_	nirnov 5% Critical Value	0.133	95% BCA Bootstrap UCL	
Data not Gamma Distribute	ed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL	
			97.5% Chebyshev(Mean, Sd) UCL	
	ma Distribution		99% Chebyshev(Mean, Sd) UCL	0.001
	proximate Gamma UCL			
95%	Adjusted Gamma UCL	3.4156E-4		
			1	

Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	.8956E
sult or 1/2 SDL (2-methylnaphthalene)			
suit of 172 oot (2-nietry/naphitalene)	are the library factor and the second second second second second second second second second second second se		
	General Stat	stics	·
Number of Valid Samples	48	Number of Unique Samples	33
Raw Statistics		Log-transformed Statistics	
Minimum	0.0042	Minimum of Log Data	-5.46
Maximum	0.43	Maximum of Log Data	-0.84
Mean	0.0246	Mean of log Data	-4.63
Median	0.006	SD of log Data	1.06
SD	0.0639	CD Of log Police	. 1.00
Coefficient of Variation	2.595		
Skewness	5.712		H-1

Normal Distribution Test	Relevant UCL S	Lognormal Distribution Test	******************************
Shapiro Wilk Test Statistic	0.343	Shapiro Wilk Test Statistic	0.69
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.94
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0401	95% H-UCL	0.02
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.03
95% Adjusted-CLT UCL	0.0479	97.5% Chebyshev (MVUE) UCL	0.03
95% Modified-t UCL	0.0414	99% Chebyshev (MVUE) UCL	0.04
Gamma Distribution Test		Data Distribution	r esteritorità y en abanca h
k star (bias corrected)	0.627	Data do not follow a Discernable Distribution (0.05	3)
Theta Star	0.0392		,
nu star	60.23		
Approximate Chi Square Value (.05)	43.38	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	0.03
Adjusted Chi Square Value	42.94	95% Jackknife UCL	0.04
		95% Standard Bootstrap UCL	0.03
Anderson-Darling Test Statistic	8.232	95% Bootstrap-t UCL	0.06
Anderson-Darling 5% Critical Value	0.8	95% Hall's Bootstrap UCL	0.09
Kolmogorov-Smirnov Test Statistic	0.358	95% Percentile Bootstrap UCL	0.04
Kolmogorov-Smirnov 5% Critical Value	0.134	95% BCA Bootstrap UCL	0.05
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.06
		97.5% Chebyshev(Mean, Sd) UCL	0.08
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.11
95% Approximate Gamma UCL	0.0342		
95% Adjusted Gamma UCL	0.0345		Part 17-11-100 100 100 100 100 100 100 100 100
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.11

	General	Statistics	
Number of Valid Samples		Number of Unique Samples	52
Raw Statistics		Log-transformed Statistics	
Minimum	7.7000E-5	Minimum of Log Data	-9.472
Maximum	0.0092	Maximum of Log Data	-4.686
Mean	9.5155E-4	Mean of log Data	-7.784
Median	3.5500E-4	SD of log Data	1.284
SD	0.0015		
Coefficient of Variation	1.597		
Skewness	3.563		······································
	Relevant U	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic		Lilliefors Test Statistic	0.142
Lilliefors Critical Value	0.118	Lilliefors Critical Value	0.118
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	-	Assuming Lognormal Distribution	~~~
95% Student's-t UCL	0.0012		0.001
95% UCLs (Adjusted for Skewness)	0.0010	95% Chebyshev (MVUE) UCL	0.001
95% Adjusted-CLT UCL			0.002
95% Modified-t UCL	0.0013	99% Chebyshev (MVUE) UCL	0.002
Gamma Distribution Test		Data Distribution	nagletytelesses to tampe and made p
k star (bias corrected)	0.7	Data do not follow a Discernable Distribution (0.05	
Theta Star]		//
nu star	78.45		
Approximate Chi Square Value (.05)	59.05	Nonparametric Statistics	***************************************
Adjusted Level of Significance	1	1	0.001
Adjusted Chi Square Value	1	95% Jackknife UCL	0.001
Adjaced on Oqual value	00.0	95% Standard Bootstrap UCL	0.001
Anderson-Darling Test Statistic	2.244	95% Bootstrap-t UCL	0.001
Anderson-Darling 5% Critical Value	0.795	95% Hall's Bootstrap UCL	0.001
Kolmogorov-Smirnov Test Statistic	1	95% Percentile Bootstrap UCL	0.001
Kolmogorov-Smirnov 5% Critical Value	0.124	95% BCA Bootstrap UCL	0.001
Data not Gamma Distributed at 5% Significance L	1	95% Chebyshev(Mean, Sd) UCL	0.001
		97.5% Chebyshev(Mean, Sd) UCL	0.002
Assuming Gamma Distribution	<u> </u>	99% Chebyshev(Mean, Sd) UCL	0.002
95% Approximate Gamma UCL	0.0012		nancentraneae aparaceae
95% Adjusted Gamma UCL			
	,		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.002
		L	
esult or 1/2 SDL (acenaphthene)			
	General S		
Number of Valid Samples	48	Number of Unique Samples	34
Raw Statistics		Log-transformed Statistics	
Minimum	0.0042	Minimum of Log Data	-5.46

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Maximum	0.133	Maximum of Log Data	-2.017
Mean	0.0195	Mean of log Data	-4.671
Median	0.0055	SD of log Data	1.03
SD	0.031		MINERLY 11 P. 11 P. 11 P. 11 P. 11 P. 11 P. 11 P. 11 P. 11 P. 11 P. 11 P. 11 P. 11 P. 11 P. 11 P. 11 P. 11 P.
Coefficient of Variation	1.59		
Skewness	2.314		
Normal Distribution Test	Relevant UC	Lognormal Distribution Test	nda taka kasal kasa da Afrika Salaya da sa
Shapiro Wilk Test Statistic	0.546	Shapiro Wilk Test Statistic	0.66
Shapiro Wilk Critical Value	1 1	Shapiro Wilk Critical Value	0.94
	0.947		0.94
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	O THE PERSONNEL TO THE PERSONNEL
95% Student's-t UCL	0.027	95% H-UCL	0.02
95% UCLs (Adjusted for Skewness)	1 0.027	95% Chebyshev (MVUE) UCL	0.02
95% Adjusted-CLT UCL	0.0285	97.5% Chebyshev (MVUE) UCL	0.02
95% Modified-t UCL	.[99% Chebyshev (MVUE) UCL	0.03
33 / Middlied-LOCL	0.02/3	33/3 Chebyshev (WVCE) OCC	0.04
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.771	Data do not follow a Discernable Distribution (0.0)	5)
Theta Star			
nu star	74.06		
Approximate Chi Square Value (.05)	55.24	Nonparametric Statistics	
Adjusted Level of Significance	1	95% CLT UCL	0.02
Adjusted Chi Square Value	<u> </u>	95% Jackknife UCL	0.02
Adjusted of a oquato value	04.74	95% Standard Bootstrap UCL	0.02
Anderson-Darling Test Statistic	8.594	95% Bootstrap-t UCL	0.02
Anderson-Darling 5% Critical Value	1	95% Hall's Bootstrap UCL	0.02
Kolmogorov-Smirnov Test Statistic	11	95% Percentile Bootstrap UCL	0.02
Kolmogorov-Smirnov 5% Critical Value		95% BCA Bootstrap UCL	0.02
_	1	,	
Data not Gamma Distributed at 5% Significance L	evei	95% Chebyshev(Mean, Sd) UCL	0.03
		97.5% Chebyshev(Mean, Sd) UCL	0.04
Assuming Gamma Distribution	0.0004	99% Chebyshev(Mean, Sd) UCL	0.06
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	<u> </u>		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.06
out of 10 CDL (composite law)			
sult or 1/2 SDL (acenaphthylene)	The state of the s		
Number of Valid Samples	General S 48	Statistics Number of Unique Samples	36
Raw Statistics		Log-transformed Statistics	
Minimum		Minimum of Log Data	-5.591
Maximum		Maximum of Log Data	-0.607
Mean		Mean of log Data	-4.703
Median	1	SD of log Data	1.13
SD	0.0928		
Coefficient of Variation	2.957		

	- 7 - 15 - 7 - 1 - 15 - 15 - 15 - 15 - 1		
Skewness	4.65	A more replacement to Extra section to the Conference of the Confe	
	Relevant U	CL Statistics	
Normal Distribution Test	garanten meneral and and and and and and and and and and	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.333	Shapiro Wilk Test Statistic	0.64
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.94
Data not Normal at 5% Significance Level	·	Data not Lognormal at 5% Significance Level	nammanamuni
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0539	95% H-UCL	0.02
95% UCLs (Adjusted for Skewness)	i	95% Chebyshev (MVUE) UCL	0.03
95% Adjusted-CLT UCL	0.063	97.5% Chebyshev (MVUE) UCL	0.03
95% Modified-t UCL	0.0554	99% Chebyshev (MVUE) UCL	0.0
Gamma Distribution Test	o (1,000, 1,000 /1,000 mm mo prima species	Data Distribution	***************************************
k star (bias corrected)	0.492	Data do not follow a Discernable Distribution (0.05	``
Theta Star	0.492		
nu star	47.23		
		N	
Approximate Chi Square Value (.05)	32.46	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	0.0
Adjusted Chi Square Value	32.08	95% Jackknife UCL	0.0
		95% Standard Bootstrap UCL	0.0
Anderson-Darling Test Statistic	10.36	95% Bootstrap-t UCL	0.1
Anderson-Darling 5% Critical Value	0.813	95% Hall's Bootstrap UCL	0.1
Kolmogorov-Smirnov Test Statistic	0.408	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.135	95% BCA Bootstrap UCL	0.0
Data not Gamma Distributed at 5% Significance Lo	evel	95% Chebyshev(Mean, Sd) UCL	0.08
		97.5% Chebyshev(Mean, Sd) UCL	0.1
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.16
95% Approximate Gamma UCL	0.0457		J. L.
95% Adjusted Gamma UCL	0.0462		y-1
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.1
sult or 1/2 SDL (aluminum)			
	General	Statistics	
Number of Valid Samples	48	Number of Unique Samples	38
Raw Statistics		Log-transformed Statistics	
Minimum	3400	Minimum of Log Data	8.1
Maximum	19200	Maximum of Log Data	9.80
Mean	13229	Mean of log Data	9.4
Median	13650	SD of log Data	0.29
SD	3162		
Coefficient of Variation	0.239		
Skewness	-0.611		
	Relevant U	CL Statistics	
	Relevant U(CL Statistics Lognormal Distribution Test	

LISTS SERVICE STREET OF AN AMERICAN AND AND AND AND AND AND AND AND AND A	0.947	Shapiro Wilk Critical Value	0.94
Data appear Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	mana americana
. 95% Student's-t UCL	13995	95% H-UCL	14384
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	15840
95% Adjusted-CLT UCL	13936	97.5% Chebyshev (MVUE) UCL	16931
95% Modified-t UCL	13988	99% Chebyshev (MVUE) UCL	19075
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	13.16	Data appear Normal at 5% Significance Level	erren-wo-withtwevenung
Theta Star	1005		Al (M. 144 (144 (144 (144 (144 (144 (144 (144
nu star	1264		les ter ma urmit Martin Hills
Approximate Chi Square Value (.05)	1182	Nonparametric Statistics	and the same VIII to be to the same
Adjusted Level of Significance	0.045	95% CLT UCL	13980
	1180	95% Jackknife UCL	
Adjusted Chi Square Value	1100	95% Standard Bootstrap UCL	13978
And I was Davidson Translation	0.922	· 1	
Anderson-Darling Test Statistic		95% Bootstrap-t UCL	13984
Anderson-Darling 5% Critical Value	0.749	95% Hall's Bootstrap UCL	13975
Kolmogorov-Smirnov Test Statistic	0.139	95% Percentile Bootstrap UCL	13979
Kolmogorov-Smirnov 5% Critical Value	0.128	95% BCA Bootstrap UCL	13943
Data not Gamma Distributed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL	15218
		97.5% Chebyshev(Mean, Sd) UCL	16079
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	17770
95% Approximate Gamma UCL	14141		
95% Adjusted Gamma UCL	14170		
Potential UCL to Use		Use 95% Student's-t UCL	13995
sult or 1/2 SDL (anthracene)			
- Annual problems - the second control of the second secon	General St	tatistics	
	40	N I	
Number of Valid Samples	48	Number of Unique Samples	39
Number of Valid Samples Raw Statistics		Log-transformed Statistics	
<u> </u>	0.0029	Log-transformed Statistics Minimum of Log Data	-5.82
Raw Statistics		Log-transformed Statistics	
Raw Statistics Minimum	0.0029	Log-transformed Statistics Minimum of Log Data	-5.82
Raw Statistics Minimum Maximum	0.0029 0.334	Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-5.82 -1.09
Raw Statistics Minimum Maximum Mean	0.0029 0.334 0.0288	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.82 -1.09 -4.66
Raw Statistics Minimum Maximum Mean Median	0.0029 0.334 0.0288 0.0060	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.82 -1.09 -4.66
Raw Statistics Minimum Maximum Mean Median SD	0.0029 0.334 0.0288 0.0060 0.0678	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.82 -1.09 -4.66
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0029 0.334 0.0288 0.0060 0.0678 2.358	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-5.82 -1.09 -4.66
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0029 0.334 0.0288 0.0060 0.0678 2.358 3.546	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-5.82 -1.09 -4.66
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0029 0.334 0.0288 0.0060 0.0678 2.358 3.546	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-5.82 -1.09 -4.66 1.19
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test	0.0029 0.334 0.0288 0.0060 0.0678 2.358 3.546	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test	-5.82 -1.09 -4.66 1.1:
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic	0.0029 0.334 0.0288 0.0060 0.0678 2.358 3.546	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic	-5.82 -1.09 -4.66
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.0029 0.334 0.0288 0.0060 0.0678 2.358 3.546	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	-5.82 -1.09 -4.66 1.19

			All the Co., Application of the
95% UCLs (Adjusted for Skewness)	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	95% Chebyshev (MVUE) UCL	0.036
95% Adjusted-CLT UCL	0.0502	97.5% Chebyshev (MVUE) UCL	0.04
95% Modified-t UCL	0.046	99% Chebyshev (MVUE) UCL	0.058
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.54	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.0533		
nu star	51.83		
Approximate Chi Square Value (.05)	36.3	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	0.04
Adjusted Chi Square Value	35.89	95% Jackknife UCL	0.04
		95% Standard Bootstrap UCL	0.04
Anderson-Darling Test Statistic	7.224	95% Bootstrap-t UCL	0.05
Anderson-Darling 5% Critical Value	0.809	95% Hall's Bootstrap UCL	0.04
Kolmogorov-Smirnov Test Statistic	0.332	95% Percentile Bootstrap UCL	0.04
Kolmogorov-Smirnov 5% Critical Value	0.135	95% BCA Bootstrap UCL	0.05
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.0
		97.5% Chebyshev(Mean, Sd) UCL	0.08
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.12
95% Approximate Gamma UCL	0.0411	3370 Onesystev (Mean, Od) OOL	U. 12
95% Adjusted Gamma UCL	0.0411		
95% Adjusted Gamma OCL	0.0415		and the first community of position from
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.12
ult or 1/2 SDL (antimony)	Gonoral Stati		
ult or 1/2 SDL (antimony)	General Stati	istics Number of Unique Samples	35
Number of Valid Samples		Number of Unique Samples	35
Number of Valid Samples Raw Statistics	47	Number of Unique Samples Log-transformed Statistics	
Number of Valid Samples	0.12	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	-2.12
Number of Valid Samples Raw Statistics	47	Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-2.12 1.44
Number of Valid Samples Raw Statistics Minimum	0.12	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-2.12 1.44 -0.15
Number of Valid Samples Raw Statistics Minimum Maximum	0.12	Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-2.12 1.44 -0.15
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	0.12 4.24 1.154	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-2.12 1.44 -0.15
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	0.12 4.24 1.154 1.14 0.724 0.627	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-2.12 1.44 -0.15
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	0.12 4.24 1.154 1.14 0.724	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-2.12 1.44 -0.15
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.12 4.24 1.154 1.14 0.724 0.627	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.12 4.24 1.154 1.14 0.724 0.627 1.485	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-2.12 1.44 -0.15
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.12 4.24 1.154 1.14 0.724 0.627 1.485	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data statistics	-2.12 1.44 -0.15 ⁻¹ 0.93
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Final Normal Distribution Test Shapiro Wilk Test Statistic	0.12 4.24 1.154 1.14 0.724 0.627 1.485	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data tatistics Lognormal Distribution Test Shapiro Wilk Test Statistic	-2.12 1.44 -0.15 0.93
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.12 4.24 1.154 1.14 0.724 0.627 1.485	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data tatistics Lognormal Distribution Test	-2.12 1.44 -0.15
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	0.12 4.24 1.154 1.14 0.724 0.627 1.485	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	-2.12 1.42 -0.15 0.93
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	0.12 4.24 1.154 1.14 0.724 0.627 1.485 Relevant UCL S	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data tatistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution	-2.12 1.44 -0.15 0.93 0.75 0.94
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Final Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	0.12 4.24 1.154 1.14 0.724 0.627 1.485	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	-2.12 1.44 -0.15 0.93 0.75 0.94
Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.12 4.24 1.154 1.14 0.724 0.627 1.485 Relevant UCL S	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data Assuming Lognormal Distribution Test Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-2.12 1.44 -0.15 0.93 0.75 0.94
Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	0.12 4.24 1.154 1.14 0.724 0.627 1.485 Relevant UCL S 0.863 0.946	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-2.12 1.44 -0.15 0.93 0.75 0.94
Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.12 4.24 1.154 1.14 0.724 0.627 1.485 Relevant UCL S	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data Assuming Lognormal Distribution Test Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-2.12 1.44 -0.15 0.93 0.75 0.94

k star (bias corrected)	1.745	Data do not follow a Discernable Distribution (0.0)	
Theta Star	1		-,
nu star	-		
Approximate Chi Square Value (.05)	ł	Nonparametric Statistics	
Adjusted Level of Significance	1		1.328
Adjusted Chi Square Value	Į., i	95% Jackknife UCL	1.33
		95% Standard Bootstrap UCL	1.329
Anderson-Darling Test Statistic	3.362	95% Bootstrap-t UCL	1.348
Anderson-Darling 5% Critical Value	1	95% Hall's Bootstrap UCL	1.38
Kolmogorov-Smirnov Test Statistic	į.	95% Percentile Bootstrap UCL	1.33
Kolmogorov-Smirnov 5% Critical Value		95% BCA Bootstrap UCL	1.35
Data not Gamma Distributed at 5% Significance L	1	95% Chebyshev(Mean, Sd) UCL	1.61
		97.5% Chebyshev(Mean, Sd) UCL	1.814
Assuming Gamma Distribution	1	99% Chebyshev(Mean, Sd) UCL	2.20
95% Approximate Gamma UCL	1.398	, , , , , , , , , , , , , , , , , , , ,	
95% Adjusted Gamma UCL	1.406		
Potential UCL to Use	1	Use 95% Chebyshev (Mean, Sd) UCL	1.614
Result or 1/2 SDL (arsenic)			
	General		***************************************
Number of Valid Samples	48	Number of Unique Samples	47
Raw Statistics	***************************************	Log-transformed Statistics	***************************************
Minimum	0.06	Minimum of Log Data	-2.813
Maximum	12.8	Maximum of Log Data	2.549
Mean		Mean of log Data	0.199
Median	2.19	SD of log Data	1.52
SD	2.465		V
Coefficient of Variation	0.973		
Skewness			
	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	ayeretter mentedya (enter tree
Shapiro Wilk Test Statistic	0.851	Shapiro Wilk Test Statistic	0.871
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.947
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	v
Assuming Normal Distribution	100 mg/s	Assuming Lognormal Distribution	***************************************
95% Student's-t UCL	3.131	95% H-UCL	7.442
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	8.391
95% Adjusted-CLT UCL	3.215	97.5% Chebyshev (MVUE) UCL	10.42
95% Modified-t UCL	3.146	99% Chebyshev (MVUE) UCL	14.42
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.774	Data Follow Appr. Gamma Distribution at 5% Significance	e l evel
Theta Star	3.273		
nu star	74.32		*****************************
Approximate Chi Square Value (.05)	55.47	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	3.119
Adjusted Level of Olymillance	0.040	93 /6 OL 1 OOL	J. 118

Adjusted Chi Square Value	54.96	95% Jackknife UCL	3.131
		95% Standard Bootstrap UCL	3.105
Anderson-Darling Test Statistic	1.067	95% Bootstrap-t UCL	3.239
Anderson-Darling 5% Critical Value	0.789	95% Hall's Bootstrap UCL	3.333
Kolmogorov-Smirnov Test Statistic	0.13	95% Percentile Bootstrap UCL	3.167
Kolmogorov-Smirnov 5% Critical Value	0.133	95% BCA Bootstrap UCL	3.266
Data follow Appr. Gamma Distribution at 5% Significar	ice Level	95% Chebyshev(Mean, Sd) UCL	4.085
		97.5% Chebyshev(Mean, Sd) UCL	4.756
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	6.074
95% Approximate Gamma UCL	3.395		
95% Adjusted Gamma UCL	3.427		
Potential UCL to Use		Use 95% Approximate Gamma UCL	3.395
Result or 1/2 SDL (barium)		Statistics Number of University Complete	AG
Number of Valid Samples	48	Number of Unique Samples	46
Raw Statistics	····	Log-transformed Statistics	
Minimum	36	Minimum of Log Data	3.584
Maximum	820	Maximum of Log Data	6.709
Mean	151.7	Mean of log Data	4.792
Median	102.5	SD of log Data	0.623
SD	136.5		hamaniamas elizados estas regidentados les frances
Coefficient of Variation	0.899		
Skewness	3.09	TO THE COLUMN TEACHER	
	Relevant U	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.653	Shapiro Wilk Test Statistic	0.929
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.947
Data not Normal at 5% Significance Level	a harihan ina balankan garakan ina barah barah barah	Data not Lognormal at 5% Significance Level	***************************************
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	184.8	95% H-UCL	175.1
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	207
95% Adjusted-CLT UCL	193.5	97.5% Chebyshev (MVUE) UCL	233.6
95% Modified-t UCL	186.2	99% Chebyshev (MVUE) UCL	285.8

Gamma Distribution Test	9-47-1224-4-44-4-4-19-4-19-4-19-19-4-19-4-19	Data Distribution	
k star (bias corrected)	2.194	Data do not follow a Discernable Distribution (0.0	15)
Theta Star	69.14		
nu star	210.7		
Approximate Chi Square Value (.05)	178.1	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	184.1
Adjusted Chi Square Value	177.1	95% Jackknife UCL	184.8
		95% Standard Bootstrap UCL	184
Anderson-Darling Test Statistic	2.597	95% Bootstrap-t UCL	203.2
Anderson-Darling 5% Critical Value	0.76	95% Hall's Bootstrap UCL	214
Kolmogorov-Smirnov Test Statistic	0.219	95% Percentile Bootstrap UCL	186.1

Kolmogorov-Smirnov 5% Critical Value	0.129	95% BCA Bootstrap UCL	192.9
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	237.6
		97.5% Chebyshev(Mean, Sd) UCL	274.7
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	347.7
95% Approximate Gamma UCL	179.5		
95% Adjusted Gamma UCL	180.4		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	237.6
			Profession of Assessment
ult or 1/2 SDL (benzo(a)anthracene)			
	General Sta	tistics	
Number of Valid Samples	48	Number of Unique Samples	36
Raw Statistics		Log-transformed Statistics	······································
Minimum	0.0025	Minimum of Log Data	-5.98
Maximum	0.993	Maximum of Log Data	-0.007
· Mean	0.0543	Mean of log Data	-4.58
Median	0.0056	SD of log Data	1.4
SD	0.175		
Coefficient of Variation	3.226		
Skewness	4.654		
F	Relevant UCL S	Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.325	Shapiro Wilk Test Statistic	0.7
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.9
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
an mentantantantantantan dari perangan mentantan antan antan dari perangan pendantan mentantan dari pendan dar			
Assuming Normal Distribution		Assuming Lognormal Distribution	
Assuming Normal Distribution 95% Student's-t UCL	0.0967	Assuming Lognormal Distribution 95% H-UCL	0.0
	0.0967		
95% Student's-t UCL	0.0967	95% H-UCL	0.0
95% Student's-t UCL 95% UCLs (Adjusted for Skewness)		95% H-UCL 95% Chebyshev (MVUE) UCL	0.0
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	0.114	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	0.0
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL	0.114	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	0.0 0.0 0.0
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test	0.114	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	0.0 0.0 0.0
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected)	0.114 0.0995 0.384	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	0.0 0.0 0.0
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star	0.114 0.0995 0.384 0.141	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	0.0 0.0 0.0
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star	0.114 0.0995 0.384 0.141 36.84	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05)	0.0 0.0 0.0
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05)	0.114 0.0995 0.384 0.141 36.84 23.95	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.08)	0.0 0.0 0.0 5)
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance	0.114 0.0995 0.384 0.141 36.84 23.95 0.045	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05) Nonparametric Statistics 95% CLT UCL	0.0 0.0 0.0 5)
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance	0.114 0.0995 0.384 0.141 36.84 23.95 0.045	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.08) Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL	0.0 0.0 0.0 5)
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value	0.114 0.0995 0.384 0.141 36.84 23.95 0.045 23.62	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.08) Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL	0.0 0.0 0.0 0.0 0.0 0.0 0.0
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic	0.114 0.0995 0.384 0.141 36.84 23.95 0.045 23.62	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.08 Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL	0.0 0.0 0.0 0.0 0.0 0.0 0.0
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value	0.114 0.0995 0.384 0.141 36.84 23.95 0.045 23.62 8.124 0.839	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05) Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL	0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.2
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic	0.114 0.0995 0.384 0.141 36.84 23.95 0.045 23.62 8.124 0.839 0.375 0.137	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05) Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL	0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.1 0.1
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value	0.114 0.0995 0.384 0.141 36.84 23.95 0.045 23.62 8.124 0.839 0.375 0.137	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.08 Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL	0.0 0.0 0.0 0.2
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value	0.114 0.0995 0.384 0.141 36.84 23.95 0.045 23.62 8.124 0.839 0.375 0.137	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05) Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% BCA Bootstrap UCL	0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.2 0.1 0.1

95% Adjusted Gamma UCL	0.0847		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.30
sult or 1/2 SDL (benzo(a)pyrene)			
suit of 172 SDL (berizo(a)pyrene)			agatirtiminingtia
	General	Statistics	
Number of Valid Samples	48	Number of Unique Samples	32
Raw Statistics	d-harresta arrasa (harresta arrasa (harresta arrasa (harresta arrasa (harresta arrasa (harresta arrasa (harrest	Log-transformed Statistics	an an an an an an an an an an an an an a
Minimum	0.0043	Minimum of Log Data	-5.447
Maximum	1.3	Maximum of Log Data	0.26
Mean	0.104	Mean of log Data	-4.13
Median	0.0058	SD of log Data	1.69
SD	0.259		dan dan dan dan dan dan dan dan dan dan
Coefficient of Variation	2.493		and steep the federal despendent and
Skewness	3.36		
. L			
Normal Distribution Test	elevant UC	CL Statistics Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.455	Shapiro Wilk Test Statistic	0.72
Shapiro Wilk Critical Value	0.433	Shapiro Wilk Test Statistic	0.72
Data not Normal at 5% Significance Level	0.547	Data not Lognormal at 5% Significance Level	0.07
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.167	95% H-UCL	0.14
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.15
95% Adjusted-CLT UCL	0.185	97.5% Chebyshev (MVUE) UCL	0.19
95% Modified-t UCL	0.17	99% Chebyshev (MVUE) UCL	0.27
Gamma Distribution Test		Data Distribution	and which the parties of the section
k star (bias corrected)	0.35	Data do not follow a Discernable Distribution (0.05	<u></u>
Theta Star	0.297		grande en en en en en en en en en en en en en
nu star	33.64		
Approximate Chi Square Value (.05)	21.37	Nonparametric Statistics	***************************************
Adjusted Level of Significance	0.045	95% CLT UCL	0.16
Adjusted Chi Square Value	21.07	95% Jackknife UCL	0.16
		95% Standard Bootstrap UCL	0.16
Anderson-Darling Test Statistic	7.481	95% Bootstrap-t UCL	0.22
Anderson-Darling 5% Critical Value	0.848	95% Hall's Bootstrap UCL	0.19
Kolmogorov-Smirnov Test Statistic	0.326	95% Percentile Bootstrap UCL	0.16
Kolmogorov-Smirnov 5% Critical Value	0.138	95% BCA Bootstrap UCL	0.19
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.26
		97.5% Chebyshev(Mean, Sd) UCL	0.338
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.476
95% Approximate Gamma UCL	0.164		
95% Adjusted Gamma UCL	0.166		***************************************

	Conorol	Statistics	
Number of Valid Samples	48	Number of Unique Samples	43
Raw Statistics		Log-transformed Statistics	.v. II. Waarde Heelst a Pre fell
Minimum	0.0037	Minimum of Log Data	-5.581
Maximum	1.36	Maximum of Log Data	0.30
Mean	0.0902	Mean of log Data	-4.019
Median	0.0119	SD of log Data	1.65
SD	0.237		
Coefficient of Variation	2.63		
Skewness	4.175		
R	Relevant U	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.413	Shapiro Wilk Test Statistic	0.84
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.94
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	***********************
95% Student's-t UCL	0.148	95% H-UCL	0.14
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.15
95% Adjusted-CLT UCL	0.169	97.5% Chebyshev (MVUE) UCL	0.2
95% Modified-t UCL	0.151	99% Chebyshev (MVUE) UCL	0.27
Gamma Distribution Test	returnari de migraren	Data Distribution	
k star (bias corrected)	0.395	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.228		
nu star	37.94		
Approximate Chi Square Value (.05)	24.84	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	0.14
Adjusted Chi Square Value	24.51	95% Jackknife UCL	0.14
		95% Standard Bootstrap UCL	0.14
Anderson-Darling Test Statistic	4.515	95% Bootstrap-t UCL	0.26
Anderson-Darling 5% Critical Value	0.836	95% Hall's Bootstrap UCL	0.16
Kolmogorov-Smirnov Test Statistic	0.218	95% Percentile Bootstrap UCL	0.15
Kolmogorov-Smirnov 5% Critical Value	0.137	95% BCA Bootstrap UCL	0.17
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.23
		97.5% Chebyshev(Mean, Sd) UCL	0.30
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.43
95% Approximate Gamma UCL	0.138		
95% Adjusted Gamma UCL	0.14		***************************************
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.43
sult or 1/2 SDL (benzo(g,h,i)perylene)	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	General :	Statistics	

Minimum 0.0043 Maximum 1.94 Mean 0.198 Median 0.0648 SD 0.388 Coefficient of Variation 1.959 Skewness 3.146 Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value 0.947 Data not Normal at 5% Significance Level Data not Lognorma Assuming Normal Distribution Assuming Lo 95% Student's-t UCL 0.292 95% UCLs (Adjusted for Skewness) 95% 95% Adjusted-CLT UCL 0.317 97.59	formed Statistics Minimum of Log Data -5.446 Maximum of Log Data 0.66 Mean of log Data -3.047 SD of log Data 1.78 I Distribution Test Shapiro Wilk Test Statistic 0.91 Shapiro Wilk Critical Value 0.94 Il at 5% Significance Level
Maximum 1.94 Mean 0.198 Median 0.0648 SD 0.388 Coefficient of Variation 1.959 Skewness 3.146 Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic O.548 Shapiro Wilk Critical Value O.947 Data not Normal at 5% Significance Level Data not Lognorma Assuming Normal Distribution 95% Student's-t UCL O.292 95% UCLs (Adjusted for Skewness) 95% 95% Adjusted-CLT UCL O.317 O.317 O.317 O.358 O.388 Coefficient of Variation O.947 Data not Lognorma O.95% O.992 O.992 O.993 O.994 O.	Maximum of Log Data 0.66 Mean of log Data -3.047 SD of log Data 1.78 I Distribution Test Shapiro Wilk Test Statistic 0.91 Shapiro Wilk Critical Value 0.94
Mean 0.198 Median 0.0648 SD 0.388 Coefficient of Variation 1.959 Skewness 3.146 Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic O.548 Shapiro Wilk Critical Value O.947 Data not Normal at 5% Significance Level Data not Lognorma Assuming Normal Distribution Assuming Normal Distribution 95% Student's-t UCL O.292 95% UCLs (Adjusted for Skewness) 95% 95% Adjusted-CLT UCL O.317 O.31	Mean of log Data -3.047 SD of log Data 1.78 I Distribution Test Shapiro Wilk Test Statistic 0.91 Shapiro Wilk Critical Value 0.94
Median 0.0648 SD 0.388 Coefficient of Variation 1.959 Skewness 3.146 Relevant UCL Statistics Normal Distribution Test Lognorma Shapiro Wilk Test Statistic 0.548 Shapiro Wilk Critical Value 0.947 Data not Normal at 5% Significance Level Data not Lognorma Assuming Normal Distribution Assuming Lo 95% Student's-t UCL 0.292 95% UCLs (Adjusted for Skewness) 95% 95% Adjusted-CLT UCL 0.317	SD of log Data 1.78 I Distribution Test Shapiro Wilk Test Statistic 0.91 Shapiro Wilk Critical Value 0.94
SD 0.388 Coefficient of Variation 1.959 Skewness 3.146 Relevant UCL Statistics Normal Distribution Test Lognorma Shapiro Wilk Test Statistic 0.548 Shapiro Wilk Critical Value 0.947 Data not Normal at 5% Significance Level Data not Lognorma Assuming Normal Distribution Assuming Lo 95% Student's-t UCL 0.292 95% UCLs (Adjusted for Skewness) 95% 95% Adjusted-CLT UCL 0.317	I Distribution Test Shapiro Wilk Test Statistic 0.91 Shapiro Wilk Critical Value 0.94
Coefficient of Variation 1.959 Skewness 3.146 Relevant UCL Statistics Normal Distribution Test Lognorma Shapiro Wilk Test Statistic 0.548 Shapiro Wilk Critical Value 0.947 Data not Normal at 5% Significance Level Data not Lognorma Assuming Normal Distribution Assuming Lo 95% Student's-t UCL 0.292 95% UCLs (Adjusted for Skewness) 959 95% Adjusted-CLT UCL 0.317	Shapiro Wilk Test Statistic 0.91 Shapiro Wilk Critical Value 0.94
Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic 0.548 Shapiro Wilk Critical Value 0.947 Data not Normal at 5% Significance Level Data not Lognorma Assuming Normal Distribution Assuming Lo 95% Student's-t UCL 0.292 95% UCLs (Adjusted for Skewness) 95% 95% Adjusted-CLT UCL 0.317	Shapiro Wilk Test Statistic 0.91 Shapiro Wilk Critical Value 0.94
Normal Distribution Test Shapiro Wilk Test Statistic 0.548 Shapiro Wilk Critical Value 0.947 Data not Normal at 5% Significance Level Data not Lognorma Assuming Normal Distribution Assuming Lo 95% Student's-t UCL 0.292 95% UCLs (Adjusted for Skewness) 95% 95% Adjusted-CLT UCL 0.317	Shapiro Wilk Test Statistic 0.91 Shapiro Wilk Critical Value 0.94
Normal Distribution Test Shapiro Wilk Test Statistic 0.548 Shapiro Wilk Critical Value 0.947 Data not Normal at 5% Significance Level Data not Lognorma Assuming Normal Distribution Assuming Lo 95% Student's-t UCL 0.292 95% UCLs (Adjusted for Skewness) 95% 95% Adjusted-CLT UCL 0.317	Shapiro Wilk Test Statistic 0.91 Shapiro Wilk Critical Value 0.94
Shapiro Wilk Test Statistic 0.548 Shapiro Wilk Critical Value 0.947 Data not Normal at 5% Significance Level Data not Lognorma Assuming Normal Distribution Assuming Lo 95% Student's-t UCL 0.292 95% UCLs (Adjusted for Skewness) 95% 95% Adjusted-CLT UCL 0.317	Shapiro Wilk Test Statistic 0.91 Shapiro Wilk Critical Value 0.94
Shapiro Wilk Critical Value 0.947 Data not Normal at 5% Significance Level Data not Lognorma Assuming Normal Distribution Assuming Lo 95% Student's-t UCL 0.292 95% UCLs (Adjusted for Skewness) 95% 95% Adjusted-CLT UCL 0.317	Shapiro Wilk Critical Value 0.94
Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 0.317 Data not Lognorma Assuming Lo 0.292 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 0.317	·
95% Student's-t UCL 0.292 95% UCLs (Adjusted for Skewness) 95% 95% Adjusted-CLT UCL 0.317 97.5%	
95% Student's-t UCL 0.292 95% UCLs (Adjusted for Skewness) 95% 95% Adjusted-CLT UCL 0.317 97.5%	anamal Distribution
95% UCLs (Adjusted for Skewness) 95% 95% Adjusted-CLT UCL 0.317 97.5%	gnormal distribution 95% H-UCL 0.54
95% Adjusted-CLT UCL 0.317 97.59	95% H-UCL 0.54 6 Chebyshev (MVUE) UCL 0.55
OO/O Modified LOGE 0.200	6 Chebyshev (MVUE) UCL 0.69 6 Chebyshev (MVUE) UCL 0.98
	U CHODYSHOV (WV OL) OCL
Gamma Distribution Test Data	Distribution
k star (bias corrected) 0.438 Data do not follow a D	iscernable Distribution (0.05)
Theta Star 0.453	
nu star 42.01	
Approximate Chi Square Value (.05) 28.16 Nonpara	metric Statistics
Adjusted Level of Significance 0.045	95% CLT UCL 0.29
Adjusted Chi Square Value 27.8	95% Jackknife UCL 0.29
95	% Standard Bootstrap UCL 0.29
Anderson-Darling Test Statistic 1.962	95% Bootstrap-t UCL 0.35
Anderson-Darling 5% Critical Value 0.826	95% Hall's Bootstrap UCL 0.36
Kolmogorov-Smirnov Test Statistic 0.159 95%	6 Percentile Bootstrap UCL 0.29
Kolmogorov-Smirnov 5% Critical Value 0.136	95% BCA Bootstrap UCL 0.32
Data not Gamma Distributed at 5% Significance Level 95% C	Chebyshev(Mean, Sd) UCL 0.44
97.5% (Chebyshev(Mean, Sd) UCL 0.54
Assuming Gamma Distribution 99% C	Chebyshev(Mean, Sd) UCL 0.75
95% Approximate Gamma UCL 0.296	***************************************
95% Adjusted Gamma UCL 0.299	hebyshev (Mean, Sd) UCL 0.75
lue 27.8 956 stic 1.962 lue 0.826 stic 0.159 95% lue 0.136 e Level 95% 0 99% 0	95% Jackknife UCL % Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 6 Percentile Bootstrap UCL 95% BCA Bootstrap UCL Chebyshev(Mean, Sd) UCL Chebyshev(Mean, Sd) UCL Chebyshev(Mean, Sd) UCL Chebyshev(Mean, Sd) UCL Chebyshev(Mean, Sd) UCL Chebyshev(Mean, Sd) UCL Chebyshev(Mean, Sd) UCL Chebyshev(Mean, Sd) UCL Chebyshev(Mean, Sd) UCL Chebyshev(Mean, Sd) UCL Chebyshev(Mean, Sd) UCL Chebyshev(Mean, Sd) UCL Chebyshev(Mean, Sd) UCL

SD Coeff in A St Varieties	0.119		
Coefficient of Variation	1.813		
Skewness	4.12		
I I	Relevant UC	L Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.538	Shapiro Wilk Test Statistic	0.80
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.94
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0948	95% H-UCL	0.12
	0.0946		
95% UCLs (Adjusted for Skewness)	0.405	95% Chebyshev (MVUE) UCL	0.13
95% Adjusted-CLT UCL	0.105	97.5% Chebyshev (MVUE) UCL	0.17
95% Modified-t UCL	0.0965	99% Chebyshev (MVUE) UCL	0.23
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.561	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.117		
nu star	53.85		
Approximate Chi Square Value (.05)	37.99	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	0.09
Adjusted Chi Square Value	37.57	95% Jackknife UCL	0.09
		95% Standard Bootstrap UCL	0.09
Anderson-Darling Test Statistic	4.058	95% Bootstrap-t UCL	0.12
Anderson-Darling 5% Critical Value	0.807	95% Hall's Bootstrap UCL	0.12
Kolmogorov-Smirnov Test Statistic	0.333	95% Percentile Bootstrap UCL	0.22
Kolmogorov-Smirnov 798 Critical Value	0.333	95% BCA Bootstrap UCL	0.03
I.		• 1	0.11
Data not Gamma Distributed at 5% Significance Le	evei	95% Chebyshev (Mean, Sd) UCL	
		97.5% Chebyshev(Mean, Sd) UCL	0.17
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.23
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.0934		
33% Adjusted dallilla 002	0.0344		***************************************
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.23
esult or 1/2 SDL (beryllium)			
Number of Valid Samples	General S	tatistics Number of Unique Samples	36
realised of valid campion		Trainio di Cinque Campio	
Raw Statistics		Log-transformed Statistics	
Minimum	0.28	Minimum of Log Data	-1.273
Maximum	1.37	Maximum of Log Data	0.31
Mean	0.894	Mean of log Data	-0.144
	0.93	SD of log Data	0.26
Median	,		
Median SD	0.206		
	0.206 0.23		etaboardatunut kilonio-iliklo

Relevant UCL Statistics

			2000 A SACK
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.983	Shapiro Wilk Test Statistic	0.89
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.94
Data appear Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	at an anna de la company
95% Student's-t UCL	0.943	95% H-UCL	0.96
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.0
95% Adjusted-CLT UCL	0.941	97.5% Chebyshev (MVUE) UCL	1.1
95% Modified-t UCL	0.943	99% Chebyshev (MVUE) UCL	1.2
Gamma Distribution Test		Data Distribution	en en en en en en en en en en en en en e
k star (bias corrected)	15.18	Data appear Normal at 5% Significance Level	
Theta Star	0.0589		******************
nu star	1457		***************************************
Approximate Chi Square Value (.05)	1369	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	0.9
Adjusted Chi Square Value	1367	95% Jackknife UCL	0.9
Adjusted of a oquale value	1007	95% Standard Bootstrap UCL	0.9
Anderson-Darling Test Statistic	0.763	95% Bootstrap-t UCL	0.9
Anderson-Darling 5% Critical Value	0.749	95% Hall's Bootstrap UCL	0.9
Kolmogorov-Smirnov Test Statistic	0.149	95% Percentile Bootstrap UCL	0.9
Kolmogorov-Smirnov 5% Critical Value	0.128	95% BCA Bootstrap UCL	0.9
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	1.0
Data not danna Distributed at 5% Oight caree Le	3761	97.5% Chebyshev(Mean, Sd) UCL	1.0
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.1
95% Approximate Gamma UCL	0.951		
95% Adjusted Gamma UCL	0.953		
Potential UCL to Use		Use 95% Student's-t UCL	0.9
ult or 1/2 SDL (boron)			
	General S		46
ult or 1/2 SDL (boron) Number of Valid Samples	General S	Statistics Number of Unique Samples	46
		Number of Unique Samples Log-transformed Statistics	46
Number of Valid Samples		Number of Unique Samples Log-transformed Statistics Minimum of Log Data	
Number of Valid Samples Raw Statistics	48	Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-0.54 3.8
Number of Valid Samples Raw Statistics Minimum	0.58	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	-0.54
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	0.58 46.2 14.49	Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-0.54 3.8 2.0
Raw Statistics Minimum Maximum Mean Median SD	0.58 46.2 14.49 11.4 12.22	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-0.54 3.8 2.0
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	0.58 46.2 14.49	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-0.54 3.8 2.0
Raw Statistics Minimum Maximum Mean Median SD	0.58 46.2 14.49 11.4 12.22	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-0.54 3.8 2.0
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.58 46.2 14.49 11.4 12.22 0.844	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-0.54 3.8 2.0
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.58 46.2 14.49 11.4 12.22 0.844 0.839	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-0.54 3.8 2.0
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.58 46.2 14.49 11.4 12.22 0.844 0.839	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-0.54 3.8 2.0 1.4
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.58 46.2 14.49 11.4 12.22 0.844 0.839	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test	-0.54 3.8 2.0 1.4 0.8 0.9

Assuming Normal Distribution	<u> </u>	Assuming Lognormal Distribution	
95% Student's-t UCL	17.45	95% H-UCL	40.7
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	46.66
95% Adjusted-CLT UCL	17.62	97.5% Chebyshev (MVUE) UCL	57.72
95% Modified-t UCL	17.48	99% Chebyshev (MVUE) UCL	79.44
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.853	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	16.98		
nu star	81.9		# 15-114 mark####################################
Approximate Chi Square Value (.05)	62.05	Nonparametric Statistics	MC4
Adjusted Level of Significance	0.045	95% CLT UCL	17.39
Adjusted Chi Square Value	61.51	95% Jackknife UCL	17.45
		95% Standard Bootstrap UCL	17.3
Anderson-Darling Test Statistic	1.863	95% Bootstrap-t UCL	17.73
Anderson-Darling 5% Critical Value	0.784	95% Hall's Bootstrap UCL	17.66
Kolmogorov-Smirnov Test Statistic	0.164	95% Percentile Bootstrap UCL	17.35
Kolmogorov-Smirnov 5% Critical Value	0.132	95% BCA Bootstrap UCL	17.58
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	22.18
		97.5% Chebyshev(Mean, Sd) UCL	25.5
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	32.04
95% Approximate Gamma UCL	19.12		
95% Adjusted Gamma UCL	19.29		erade esage et la constitue de la constitue de la constitue de la constitue de la constitue de la constitue de
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	32.04
our or the ope (oddition)			***************************************
	General Sta	atistics	
Number of Valid Samples	General Sta	atistics Number of Unique Samples	35
Number of Valid Samples	·	Number of Unique Samples	35
Number of Valid Samples Raw Statistics	48	Number of Unique Samples Log-transformed Statistics	
Number of Valid Samples Raw Statistics Minimum	0.0029	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	35 -5.843 -0.734
Number of Valid Samples Raw Statistics	48	Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-5.843
Number of Valid Samples Raw Statistics Minimum Maximum	0.0029	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	-5.843 -0.734 -3.439
Number of Valid Samples Raw Statistics Minimum Maximum Mean	0.0029 0.48 0.103	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.843 -0.734 -3.439
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	0.0029 0.48 0.103 0.0158	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.843 -0.734 -3.439
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	0.0029 0.48 0.103 0.0158 0.146	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.843 -0.734 -3.439
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0029 0.48 0.103 0.0158 0.146 1.423 1.467	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-5.843 -0.734 -3.439
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0029 0.48 0.103 0.0158 0.146 1.423	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data	-5.843 -0.734 -3.439
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0029 0.48 0.103 0.0158 0.146 1.423 1.467	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test	-5.843 -0.734 -3.439 1.593
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Final Distribution Test Shapiro Wilk Test Statistic	0.0029 0.48 0.103 0.0158 0.146 1.423 1.467	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic	-5.843 -0.734 -3.439 1.593
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0029 0.48 0.103 0.0158 0.146 1.423 1.467	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test	-5.843 -0.734 -3.439 1.593
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	0.0029 0.48 0.103 0.0158 0.146 1.423 1.467	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	-5.843 -0.734 -3.439 1.593
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Final Statistic Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	0.0029 0.48 0.103 0.0158 0.146 1.423 1.467 Relevant UCL 0.691 0.947	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution	-5.843 -0.734 -3.439 1.593 0.868 0.947
Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	0.0029 0.48 0.103 0.0158 0.146 1.423 1.467	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	-5.843 -0.734 -3.439 1.593 0.869 0.947
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.0029 0.48 0.103 0.0158 0.146 1.423 1.467 Relevant UCL 0.691 0.947	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-5.843 -0.734 -3.439 1.593 0.869 0.947
Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	0.0029 0.48 0.103 0.0158 0.146 1.423 1.467 Relevant UCL 0.691 0.947	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	-5.843 -0.734 -3.439 1.593 0.869 0.947

Gamma Distribution Test		Data Distribution		
k star (bias corrected)	0.52	Data do not follow a Discernable Distribution (0.0)	5)	
Theta Star	0.198			
nu star	49.9		**********************	
Approximate Chi Square Value (.05)	34.68	Nonparametric Statistics	Transferige and 18 Letter appearance of	
Adjusted Level of Significance	0.045	95% CLT UCL	0.13	
Adjusted Chi Square Value	34.29	95% Jackknife UCL	0.13	
		95% Standard Bootstrap UCL	0.13	
Anderson-Darling Test Statistic	3.459	95% Bootstrap-t UCL	0.14	
Anderson-Darling 5% Critical Value	0.81	95% Hall's Bootstrap UCL		
Kolmogorov-Smirnov Test Statistic	0.286	95% Percentile Bootstrap UCL		
Kolmogorov-Smirnov 5% Critical Value	0.135	95% BCA Bootstrap UCL	0.14	
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.19	
		97.5% Chebyshev(Mean, Sd) UCL	0.23	
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.31	
95% Approximate Gamma UCL	0.148			
95% Adjusted Gamma UCL	0.15			
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.31	
Number of Valid Samples	General Stat 48	tistics Number of Unique Samples	35	
Number of Valid Samples			35	
		Number of Unique Samples	35 -5.507	
Raw Statistics	48	Number of Unique Samples Log-transformed Statistics		
Raw Statistics Minimum	0.0040	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	-5.507 -1.959	
Raw Statistics Minimum Maximum	0.0040 0.141	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-5.507 -1.959 -4.698	
Raw Statistics Minimum Maximum Mean	0.0040 0.141 0.0192	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.507 -1.959 -4.698	
Raw Statistics Minimum Maximum Mean Median	0.0040 0.141 0.0192 0.0055	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.507 -1.959 -4.698	
Raw Statistics Minimum Maximum Mean Median SD	0.0040 0.141 0.0192 0.0055 0.0315	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.507 -1.959 -4.698	
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0040 0.141 0.0192 0.0055 0.0315 1.637 2.515	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-5.507 -1.959 -4.698	
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0040 0.141 0.0192 0.0055 0.0315 1.637	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-5.507 -1.959 -4.698	
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0040 0.141 0.0192 0.0055 0.0315 1.637 2.515	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-5.507 -1.959 -4.698 1.04	
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test	0.0040 0.141 0.0192 0.0055 0.0315 1.637 2.515	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test	-5.507	
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Final Normal Distribution Test Shapiro Wilk Test Statistic	0.0040 0.141 0.0192 0.0055 0.0315 1.637 2.515	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic	-5.507 -1.959 -4.698 1.04	
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.0040 0.141 0.0192 0.0055 0.0315 1.637 2.515	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SLognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	-5.507 -1.959 -4.698 1.04	
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	0.0040 0.141 0.0192 0.0055 0.0315 1.637 2.515	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SLognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	-5.507 -1.959 -4.698 1.04 0.68 0.94	
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	0.0040 0.141 0.0192 0.0055 0.0315 1.637 2.515 Relevant UCL S 0.54 0.947	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SLognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution	-5.507 -1.959 -4.698 1.04:	
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	0.0040 0.141 0.0192 0.0055 0.0315 1.637 2.515 Relevant UCL S 0.54 0.947	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	-5.507 -1.959 -4.698 1.04 0.68 0.94	
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.0040 0.141 0.0192 0.0055 0.0315 1.637 2.515 Relevant UCL S 0.54 0.947	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-5.507 -1.959 -4.698 1.04 0.68 0.94 0.02 0.02	
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	0.0040 0.141 0.0192 0.0055 0.0315 1.637 2.515 Relevant UCL S 0.54 0.947 0.0269	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-5.507 -1.959 -4.698 1.04 0.68 0.94 0.02 0.02	
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL	0.0040 0.141 0.0192 0.0055 0.0315 1.637 2.515 Relevant UCL S 0.54 0.947 0.0269	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	-5.507 -1.959 -4.698 1.04 0.688 0.94 0.022 0.033 0.043	
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test	0.0040 0.141 0.0192 0.0055 0.0315 1.637 2.515 Relevant UCL S 0.54 0.947 0.0269 0.0285 0.0271	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	-5.507 -1.958 -4.698 1.04 0.68 0.94 0.02 0.02 0.03 0.04	

Approximate Chi Square Value (.05)	54.22	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	0.026
Adjusted Chi Square Value	53.72	95% Jackknife UCL	0.020
		95% Standard Bootstrap UCL	0.020
Anderson-Darling Test Statistic	8.173	95% Bootstrap-t UCL	0.03
Anderson-Darling 5% Critical Value	0.79	95% Hall's Bootstrap UCL	0.02
Kolmogorov-Smirnov Test Statistic	0.369	95% Percentile Bootstrap UCL	0.02
Kolmogorov-Smirnov 5% Critical Value	0.133	95% BCA Bootstrap UCL	0.02
Data not Gamma Distributed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL	0.03
		97.5% Chebyshev(Mean, Sd) UCL	0.04
Assuming Gamma Distribution	<u> </u>	99% Chebyshev(Mean, Sd) UCL	0.06
95% Approximate Gamma UCL	0.0259		4 /e www.
95% Adjusted Gamma UCL	0.0261		IICH-HAMBI (VAVIORI)
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.06
ult or 1/2 SDL (carbon disulfide)			
	General Stat		
Number of Valid Samples	48	Number of Unique Samples	38
Raw Statistics		Log-transformed Statistics	
Minimum	5.9000E-5	Minimum of Log Data	-9.738
Maximum	0.0069	Maximum of Log Data	-4.963
Mean	5.2498E-4	Mean of log Data	-9.042
Median	7.1500E-5	SD of log Data	1.24
ı SD	0.0014		511-20-14-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
Coefficient of Variation	2.753		
Skewness	3.417		
	Relevant UCL S	Motivation	
Normal Distribution Test	Relevant OCL 3	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.369	Shapiro Wilk Test Statistic	0.52
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.94
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

		Assuming Lagramus Distribution	
Assuming Normal Distribution	Helenschaft	Assuming Lognormal Distribution	
Assuming Normal Distribution 95% Student's-t UCL	8.7506E-4	Assuming Lognormal Distribution 95% H-UCL	4.1104E
	8.7506E-4		
95% Student's-t UCL		95% H-UCL	4.9331E
95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	9.7810E-4	95% H-UCL 4	4.9331E 5.9875E
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	9.7810E-4	95% H-UCL 4 95% Chebyshev (MVUE) UCL 4 97.5% Chebyshev (MVUE) UCL 5	4.9331E 5.9875E
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL	9.7810E-4	95% H-UCL 2 95% Chebyshev (MVUE) UCL 2 97.5% Chebyshev (MVUE) UCL 2 99% Chebyshev (MVUE) UCL 2	4.9331E 5.9875E 3.0588E
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test	9.7810E-4 8.9220E-4	95% H-UCL 2 95% Chebyshev (MVUE) UCL 2 97.5% Chebyshev (MVUE) UCL 2 99% Chebyshev (MVUE) UCL 2 Data Distribution	4.9331E 5.9875E 3.0588E
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected)	9.7810E-4 8.9220E-4 0.422	95% H-UCL 2 95% Chebyshev (MVUE) UCL 2 97.5% Chebyshev (MVUE) UCL 2 99% Chebyshev (MVUE) UCL 2 Data Distribution	4.9331E 5.9875E 3.0588E
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star	9.7810E-4 8.9220E-4 0.422 0.0012	95% H-UCL 2 95% Chebyshev (MVUE) UCL 2 97.5% Chebyshev (MVUE) UCL 5 99% Chebyshev (MVUE) UCL 6 Data Distribution Data do not follow a Discernable Distribution (0.05)	4.9331E 5.9875E 3.0588E
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05)	9.7810E-4 8.9220E-4 0.422 0.0012 40.53 26.94	95% H-UCL 2 95% Chebyshev (MVUE) UCL 2 97.5% Chebyshev (MVUE) UCL 5 99% Chebyshev (MVUE) UCL 8 Data Distribution Data do not follow a Discernable Distribution (0.08) Nonparametric Statistics	4.9331E 5.9875E 3.0588E
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance	9.7810E-4 8.9220E-4 0.422 0.0012 40.53	95% H-UCL 2 95% Chebyshev (MVUE) UCL 2 97.5% Chebyshev (MVUE) UCL 5 99% Chebyshev (MVUE) UCL 6 Data Distribution Data do not follow a Discernable Distribution (0.05)	4.9331E 5.9875E 3.0588E 5)
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05)	9.7810E-4 8.9220E-4 0.422 0.0012 40.53 26.94 0.045	95% H-UCL 2 95% Chebyshev (MVUE) UCL 2 97.5% Chebyshev (MVUE) UCL 5 99% Chebyshev (MVUE) UCL 5 Data Distribution Data do not follow a Discernable Distribution (0.05) Nonparametric Statistics 95% CLT UCL 8	4.9331E 5.9875E 3.0588E 5) 3.6816E 3.7506E

	A rajonijani o	he Base Nastana a	。 <u>英語記 - pair</u> () (igiinagawai	lyvenstande		John Christian (C
Anderson-Darling 5% Critical Value	0.829			95	% Hall's F	Bootstrap UCL	8 5064E-
Kolmogorov-Smirnov Test Statistic	1					•	1
Kolmogorov-Smirnov 5% Critical Value	Į.	95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL					<u> </u>
Data not Gamma Distributed at 5% Significance I		95% Chebyshev(Mean, Sd) UCL			0.001		
Data for damina Distributed at 3% Significance i	1	97.5% Chebyshev(Mean, Sd) UCL			0.001		
Assuming Gamma Distribution				reducerate to the description		ean, Sd) UCL	0.002
95% Approximate Gamma UCL	7 8974F-4	***************************************		70 Ones	Dy3116V(IVI	ean, ou) ool	0.002
95% Adjusted Gamma UCL	1						
Potential UCL to Use			Use 99%	6 Cheb	yshev (M	ean, Sd) UCL	0.002
		adi atau tana ayay ayaa ahaa ahaa ahaa ahaa ahaa a					
esult or 1/2 SDL (chromium)							
	General	Statistics		**************************************			
Number of Valid Samples	48			Num	ber of Un	ique Samples	42
Raw Statistics	annalardara serila (danbaska 1877) in 1821 in 1881 in		Log-tra	ınsform	ned Statis	tics	1.1
Minimum	8.96		EL PILLE PLANTE DE LE PROPERTIE DE LA PROPERTI		Minimur	n of Log Data	2.193
Maximum	44.6		. Sec. 1		Maximur	n of Log Data	3.798
Mean	15.07				Mea	an of log Data	2.667
Median	14.1				S	D of log Data	0.286
SD	5.536				~	oogus marina America a a a a a a a a a a a a a a a a a a	
Coefficient of Variation	0.367		and the second of the second o			neren er far fir fir den fræde skede er fræde fræde fræde fræde fræde fræde fræde fræde fræde fræde fræde fræd	
Skewness	3.399						
	Relevant U	CL Statistics	eventile en el estate en estate en estate en estate en estate en estate en estate en estate en estate en estate		· · · · · · · · · · · · · · · · · · ·	anana kanan kanan kanan ya masa kana	11.14. Martin Carlo 11.14.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1
Normal Distribution Test	Mitable after course the the threatening of the little action		Lognorr	nal Dis	tribution	Test	
Shapiro Wilk Test Statistic	0.716			Sha	piro Wilk	Test Statistic	0.918
Shapiro Wilk Critical Value	0.947		**************************************	Sha	piro Wilk	Critical Value	0.947
Data not Normal at 5% Significance Level		D	ata not Lognor	mal at	5% Signi	icance Level	
Assuming Normal Distribution			Assuming	Lognor	rmal Dist	ibution	WATER MINISTER OF THE PROPERTY
95% Student's-t UCL	16.41		ween to have desirable to the organization of the second o		abrasti rilati ventarea estrafarea	95% H-UCL	16.14
95% UCLs (Adjusted for Skewness)	<u> </u>		9	95% Ch	nebyshev	(MVUE) UCL	17.73
95% Adjusted-CLT UCL	16.81		97	.5% Ch	nebyshev	(MVUE) UCL	18.91
95% Modified-t UCL	16.48		9	99% Ch	ebyshev	(MVUE) UCL	21.24
Gamma Distribution Test			Da	ata Dist	tribution	TORREST STATES HERE THE STATE OF THE STATES	· Mariana de la compositione de
k star (bias corrected)	10.44	Data	do not follow a	Disce	rnable Di	stribution (0.)5)
Theta Star	1.443	and the second s			***************************************	(1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	
nu star	1003		Mangalah Laguston, kat _{ila} n dapat Nagalanga Tel ((A) yan yanga (an A) yan		TARAFIE MANAGAMINTANTI I ATTAR		
Approximate Chi Square Value (.05)	930.2	**************************************	Nonpa	rametr	ric Statist	ics	
Adjusted Level of Significance	0.045		**************************************		9	5% CLT UCL	16.39
Adjusted Chi Square Value	928	and demandered the contract that the contract the	·····································		95% J	ackknife UCL	16.41
				95% St	andard B	ootstrap UCL	16.4
Anderson-Darling Test Statistic	1.41				95% Bo	otstrap-t UCL	17.14
Anderson-Darling 5% Critical Value	0.749			95%	6 Hall's B	ootstrap UCL	22.68
Kolmogorov-Smirnov Test Statistic	0.175		9	5% Pei	rcentile B	ootstrap UCL	16.47
Tomogorov Ommilov rost statistic	:						
Kolmogorov-Smirnov 5% Critical Value	0.128		11.15	95	% BCA B	ootstrap UCL	16.94
_	0.128		95%			ootstrap UCL ean, Sd) UCL	16.94 18.56

Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	23.0
95% Approximate Gamma UCL	16.25		
95% Adjusted Gamma UCL	16.29		
Potential UCL to Use		Use 95% Student's-t UCL	16.4
		or 95% Modified-t UCL	16.4
lt or 1/2 SDL (chromium vi)			
	General Stat	tistics	oden Montestano
Number of Valid Samples	25	Number of Unique Samples	25
Raw Statistics		Log-transformed Statistics	MATHEMATICAL STREET
Minimum	0.181	Minimum of Log Data	-1.7
Maximum	4.04	Maximum of Log Data	1.3
Mean	0.956	Mean of log Data	-0.68
Median	0.284	SD of log Data	1.
SD	1.207		······
Coefficient of Variation	1.263		
Skewness	1.817		
	Relevant UCL S	Statistics	***************************************
Normal Distribution Test	and the state of t	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.672	Shapiro Wilk Test Statistic	0.8
Shapiro Wilk Critical Value	0.918	Shapiro Wilk Critical Value	0.9
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	1.369	95% H-UCL	1.6
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.8
95% Adjusted-CLT UCL	1.447	97.5% Chebyshev (MVUE) UCL	2.3
95% Modified-t UCL	1.383	99% Chebyshev (MVUE) UCL	3.
Gamma Distribution Test		Data Distribution	/
k star (bias corrected)	0.831	Data do not follow a Discernable Distribution (0.05	3
Theta Star	1.15	Data do not ionow a Disconnable Distribution (0.00	' <i>)</i>
nu star	41.53		t - MAT the Full control, was Travelle
Approximate Chi Square Value (.05)	27.76	Nonparametric Statistics	
Adjusted Level of Significance	0.0395	95% CLT UCL	1.3
Adjusted Chi Square Value	26.99	95% Jackknife UCL	1.3
		95% Standard Bootstrap UCL	1.3
Anderson-Darling Test Statistic	2.142	95% Bootstrap-t UCL	1.5
Anderson-Darling 5% Critical Value	0.777	95% Hall's Bootstrap UCL	1.3
Kolmogorov-Smirnov Test Statistic	0.254	95% Percentile Bootstrap UCL	1.3
Kolmogorov-Smirnov 5% Critical Value	0.18	95% BCA Bootstrap UCL	1.4
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	2.0
		97.5% Chebyshev(Mean, Sd) UCL	2.4
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	3.3
	1.43		3.3

ult or 1/2 SDL (chrysene)			***************************************	
	General Stat	istics	la Barandya yi Barahi'a asaa ayi aba	
Number of Valid Samples	48	Number of Unique Samples	39	
Raw Statistics		Log-transformed Statistics		
Minimum	0.0037	Minimum of Log Data	-5.579	
Maximum	4.05	Maximum of Log Data		
Mean	0.217	Mean of log Data	-3.867	
Median	0.0077	SD of log Data	1.84	
SD	0.715			
Coefficient of Variation	3.295			
Skewness	4.448			
	Relevant UCL S	tolistica		
Normal Distribution Test	relevant OCL 3	Lognormal Distribution Test		
Shapiro Wilk Test Statistic	0.344	Shapiro Wilk Test Statistic	0.80	
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.94	
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	********************	
Assuming Normal Distribution	gillateriate gan gilo part ogsåra garig ogsår pargade, paraga y Maritadik I I lapi	Assuming Lognormal Distribution		
95% Student's-t UCL	0.39	95% H-UCL	0.28	
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.27	
95% Adjusted-CLT UCL	0.457	97.5% Chebyshev (MVUE) UCL	0.35	
95% Modified-t UCL	0.401	99% Chebyshev (MVUE) UCL	0.49	
Gamma Distribution Test		Data Distribution		
k star (bias corrected)	0.291	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.746		ga 18a 12a 2 A F Ph.Pa 1 2 148 6 6 4 4	
nu star	27.93		v	
Approximate Chi Square Value (.05)	16.88	Nonparametric Statistics	***************************************	
Adjusted Level of Significance	0.045	95% CLT UCL	0.38	
Adjusted Chi Square Value	16.61	95% Jackknife UCL	0.39	
		95% Standard Bootstrap UCL	0.38	
Anderson-Darling Test Statistic	6.798	95% Bootstrap-t UCL	0.91	
Anderson-Darling 5% Critical Value	0.864	95% Hali's Bootstrap UCL	1.02	
Kolmogorov-Smirnov Test Statistic	0.262	95% Percentile Bootstrap UCL	0.39	
Kolmogorov-Smirnov 5% Critical Value	0.139	95% BCA Bootstrap UCL	0.48	
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.66	
		97.5% Chebyshev(Mean, Sd) UCL	0.86	
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.24	
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.359		,	
oo 76 / Myddied Garrinia OOL	0.000			
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	1.24	

Number of Valid Samples	General 48	Number of Unique Samples	46
Number of Valid Samples	+0	Number of Offique Saffiples	+0
Raw Statistics		Log-transformed Statistics	
Minimum	3	Minimum of Log Data	1.09
Maximum	9.89	Maximum of Log Data	2.29
Mean	6.977	Mean of log Data	1.92
Median	7.29	SD of log Data	0.2
SD	1.408		V
Coefficient of Variation	0.202		ryryrama.man
Skewness	-0.339		
	Relevant U	DL Statistics	
Normal Distribution Test		Lognormal Distribution Test	Maritimetry (right brown
Shapiro Wilk Test Statistic	0.973	Shapiro Wilk Test Statistic	0.9
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.9
Data appear Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	and the law reduced to the control of the control o	Assuming Lognormal Distribution	
95% Student's-t UCL	7.318	95% H-UCL	7.3
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	7.9
95% Adjusted-CLT UCL	7.3	97.5% Chebyshev (MVUE) UCL	8.4
95% Modified-t UCL	7.316	99% Chebyshev (MVUE) UCL	9.2
Gamma Distribution Test	n Chant an annual phagain ann ann ann an ann an an	Data Distribution	
k star (bias corrected)	21.03	Data appear Normal at 5% Significance Level	
Theta Star	0.332		
nu star	2019		lantur. 111-jan 11-territor
Approximate Chi Square Value (.05)	1915	Nonparametric Statistics	7.0
Adjusted Level of Significance	0.045	95% CLT UCL	7.3
Adjusted Chi Square Value	1912	95% Jackknife UCL	7.3
		95% Standard Bootstrap UCL	7.3
Anderson-Darling Test Statistic	0.753	95% Bootstrap-t UCL	7.3
Anderson-Darling 5% Critical Value	0.748	95% Hall's Bootstrap UCL	7.3
Kolmogorov-Smirnov Test Statistic	0.15	95% Percentile Bootstrap UCL	7.2
Kolmogorov-Smirnov 5% Critical Value	0.128	95% BCA Bootstrap UCL	7.2
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	7.8
		97.5% Chebyshev(Mean, Sd) UCL	8.2
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	8.9
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	7.353 7.365		
Potential UCL to Use	44,000	Use 95% Student's-t UCL	7.3
ult or 1/2 SDL (copper)			
	General S	Statistics	8791c1 Eslat 1 168 c PANASIA 1
Number of Valid Samples	48	Number of Unique Samples	44
Raw Statistics	-1	Log-transformed Statistics	
raw alausies		Log-nansionneo alansics	

3.892	Maximum of Log Data	49	Maximum
2.553	Mean of log Data	14.49	Mean
0.471	SD of log Data	13.15	Median
		8.49	SD
		0.586	Coefficient of Variation
		2.371	Skewness
		Relevant UC	արում անագրարությունը արդարարարարարարարարարարարարարարարարարար
	Lognormal Distribution Test		Normal Distribution Test
0.95	Shapiro Wilk Test Statistic	0.755	Shapiro Wilk Test Statistic
0.947	Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value
	Data appear Lognormal at 5% Significance Level		Data not Normal at 5% Significance Level
	Assuming Lognormal Distribution		Assuming Normal Distribution
16.31	95% H-UCL	16.55	95% Student's-t UCL
18.75	95% Chebyshev (MVUE) UCL		95% UCLs (Adjusted for Skewness)
20.66	97.5% Chebyshev (MVUE) UCL	16.96	95% Adjusted-CLT UCL
24.43	99% Chebyshev (MVUE) UCL	16.62	95% Modified-t UCL
	Data Distribution		Gamma Distribution Test
i	Data appear Lognormal at 5% Significance Level	4.055	k star (bias corrected)
		3.574	Theta Star
		389.3	nu star
	Nonparametric Statistics	344.6	Approximate Chi Square Value (.05)
16.51	95% CLT UCL	0.045	Adjusted Level of Significance
16.55	95% Jackknife UCL	343.3	Adjusted Chi Square Value
16.5	95% Standard Bootstrap UCL	040.0	/ Ajusted of in Oquato value
17.15	95% Bootstrap-t UCL	1.342	Anderson-Darling Test Statistic
17.13	95% Hall's Bootstrap UCL	0.753	Anderson-Darling 7est Statistic
			reconstructive contrated and the state of th
16.71	95% Percentile Bootstrap UCL	0.159	Kolmogorov-Smirnov Test Statistic
17.17	95% BCA Bootstrap UCL	0.128	Kolmogorov-Smirnov 5% Critical Value
19.83	95% Chebyshev(Mean, Sd) UCL	vel	Data not Gamma Distributed at 5% Significance Le
22.14	97.5% Chebyshev(Mean, Sd) UCL		
26.68	99% Chebyshev(Mean, Sd) UCL		Assuming Gamma Distribution
and designed to the second		16.37 16.43	95% Approximate Gamma UCL 95% Adjusted Gamma UCL
		_	
16.55	Use 95% Student's-t UCL		Potential UCL to Use
16.62	or 95% Modified-t UCL		
16.31	or 95% H-UCL		
		Indiada Ayapa Ababada Ababada	sult or 1/2 SDL (dibenz(a,h)anthracene)
(4)	stics	General S	
39	Number of Unique Samples	48	Number of Valid Samples
	Log-transformed Statistics	E	Raw Statistics
-5.752	Minimum of Log Data	0.0031	Minimum
1.068	Maximum of Log Data	2.91	Maximum
-3.828	Mean of log Data	0.203	Mean
4.020		i	

our and a long transportation of the second of the second of the second of the second of the second of the second of	malaka sasasa a di Teo	Control program (Astronomy and program of the Control of the Contr	an orangina.
SD	0.625		
Coefficient of Variation	3.076		
Skewness	3.829		
F	Relevant UCL	. Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.355	Shapiro Wilk Test Statistic	0.83
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.94
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
			old readon (as a see Ferrit are to pro-
Assuming Normal Distribution	0.254	Assuming Lognormal Distribution	0,26
95% Student's-t UCL	0.354	95% H-UCL	
95% UCLs (Adjusted for Skewness)	0.405	95% Chebyshev (MVUE) UCL	0.26
95% Adjusted-CLT UCL 95% Modified-t UCL	0.405 0.363	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	0.33 0.47
33 // Modified to OC	0.505	33% Chebyshev (MYGE) COE	0.47
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.302	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	0.672		
nu star	29.01		
Approximate Chi Square Value (.05)	17.72	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	0.35
Adjusted Chi Square Value	17.44	95% Jackknife UCL	0.35
		95% Standard Bootstrap UCL	0.35
Anderson-Darling Test Statistic	6.795	95% Bootstrap-t UCL	0.55
Anderson-Darling 5% Critical Value	0.86	95% Hail's Bootstrap UCL	0.35
Kolmogorov-Smirnov Test Statistic	0.33	95% Percentile Bootstrap UCL	0.37
Kolmogorov-Smirnov 5% Critical Value	0.139	95% BCA Bootstrap UCL	0.42
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.59
		97.5% Chebyshev(Mean, Sd) UCL	0.76
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.1
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.333		
95% Adjusted Gamma OCL	0.336		von wegen and the second
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	1.1
esult or 1/2 SDL (dibenzofuran)			***************************************
Number of Valid Samples	General Sta 48	atistics Number of Unique Samples	39
Number of Valid Samples	40	Number of Offique Samples	33
Raw Statistics	- 100 m m m m m m m m m m m m m m m m m m	Log-transformed Statistics	
Minimum	0.0025	Minimum of Log Data	-5.98
Maximum	0.08	Maximum of Log Data	-2.526
Mean	0.0139	Mean of log Data	-4.779
Median	0.0079	SD of log Data	0.93
SD	0.0176		
Coefficient of Variation	1.267		
Skewness	2.343		

			4.75 5 P - 755 96
Normal Distribution Test	Life and the second	Lognormal Distribution Test	A AMERICA AND AND AND AND AND AND AND AND AND AN
Shapiro Wilk Test Statistic	0.626	Shapiro Wilk Test Statistic	0.877
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.947
Data not Normal at 5% Significance Level	**************************************	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	**************************************	Assuming Lognormal Distribution	***************************************
95% Student's-t UCL	0.0182	95% H-UCL	0.017
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.021
95% Adjusted-CLT UCL	0.019	97.5% Chebyshev (MVUE) UCL	0.025
95% Modified-t UCL	0.0183	99% Chebyshev (MVUE) UCL	0.032
Gamma Distribution Test	***************************************	Data Distribution	***************************************
k star (bias corrected)	1.075	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	0.0129		
nu star	103.2		
Approximate Chi Square Value (.05)	80.74	Nonparametric Statistics	······································
Adjusted Level of Significance	0.045	95% CLT UCL	0.018
Adjusted Chi Square Value	80.12	95% Jackknife UCL	0.018
/ ajuotou om oquuto vuido	00.12	95% Standard Bootstrap UCL	0.017
Anderson-Darling Test Statistic	3.619	95% Bootstrap-t UCL	0.019
Anderson-Darling 5% Critical Value	0.776	95% Hall's Bootstrap UCL	0.018
Kolmogorov-Smirnov Test Statistic	0.281	95% Percentile Bootstrap UCL	0.018
Kolmogorov-Smirnov 5% Critical Value	0.131	95% BCA Bootstrap UCL	0.019
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.013
Data not danima Distributed at 0% Digitalicance Et	3461	97.5% Chebyshev(Mean, Sd) UCL	0.029
Assuming Gamma Distribution	***************************************	99% Chebyshev(Mean, Sd) UCL	0.029
95% Approximate Gamma UCL	0.0178		0.039
95% Adjusted Gamma UCL	0.0178		······································
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.025
esult or 1/2 SDL (endosulfan sulfate)			
	General	Statistics	···
Number of Valid Samples	48	Number of Unique Samples	45
Raw Statistics		Log-transformed Statistics	**************************************
Minimum	1.4450E-4	Minimum of Log Data	-8.842
Maximum	0.06	Maximum of Log Data	-2.813
Mean	0.0018	Mean of log Data	-8.104
Median	2.1800E-4	SD of log Data	1.163
SD	0.0087		
Coefficient of Variation	4.664		
Skewness	6.541		
F	Relevant UC	DL Statistics	DARINI - HI - L. A. A. A.
Normal Distribution Test		Lognormal Distribution Test	***************************************
Shapiro Wilk Test Statistic	0.213	Shapiro Wilk Test Statistic	0.552
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.947
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	n
95% Student's-t UCL	0.0039	95% H-UCL 9	0895F
95% UCLs (Adjusted for Skewness)	0.0000	95% Chebyshev (MVUE) UCL	0.00
95% Adjusted-CLT UCL	0.0052	97.5% Chebyshev (MVUE) UCL	0.00
95% Modified-t UCL	0.0041	99% Chebyshev (MVUE) UCL	0.00
Gamma Distribution Test	0.357	Data Distribution Data do not follow a Discernable Distribution (0.05)	
k star (bias corrected) Theta Star	0.0052	Data do not follow a Discernable Distribution (0.03)
	34.27		
nu star Approximate Chi Square Value (.05)	21.88	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	0.00
Adjusted Chi Square Value	21.57	95% Jackknife UCL	0.00
Aujusteu Otti Oquale Value	21.37	95% Standard Bootstrap UCL	0.00
Anderson-Darling Test Statistic	13.04	95%·Bootstrap-t UCL	0.01
Anderson-Darling 5% Critical Value	0.846	95% Hall's Bootstrap UCL	0.0
Kolmogorov-Smirnov Test Statistic	0.466	95% Percentile Bootstrap UCL	0.00
Kolmogorov-Smirnov 5% Critical Value	0.138	95% BCA Bootstrap UCL	0.00
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.00
		97.5% Chebyshev(Mean, Sd) UCL	0.00
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0
95% Approximate Gamma UCL	0.0029		
95% Adjusted Gamma UCL	0.0029		
MANAGEMENT OF THE PROPERTY OF			
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.0
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.0
		Use 99% Chebyshev (Mean, Sd) UCL	0.0
Potential UCL to Use t or 1/2 SDL (endrin aldehyde)			0.0
t or 1/2 SDL (endrin aldehyde)	General Stati		0.0
		istics	
t or 1/2 SDL (endrin aldehyde)		istics	
t or 1/2 SDL (endrin aldehyde) Number of Valid Samples Raw Statistics		Number of Unique Samples Log-transformed Statistics Minimum of Log Data	46 -8.53
t or 1/2 SDL (endrin aldehyde) Number of Valid Samples Raw Statistics Minimum Maximum	1.9700E-4 0.01	Stics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	46 -8.53 -4.60
t or 1/2 SDL (endrin aldehyde) Number of Valid Samples Raw Statistics Minimum Maximum Mean	1.9700E-4 0.01 0.0010	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	46 -8.53 -4.60 -7.75
t or 1/2 SDL (endrin aldehyde) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	1.9700E-4 0.01 0.0010 2.8000E-4	Stics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	46 -8.53 -4.60
t or 1/2 SDL (endrin aldehyde) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	1.9700E-4 0.01 0.0010 2.8000E-4 0.0022	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	46 -8.53 -4.60 -7.75
t or 1/2 SDL (endrin aldehyde) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation	1.9700E-4 0.01 0.0010 2.8000E-4 0.0022 2.063	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	46 -8.53 -4.60 -7.75
t or 1/2 SDL (endrin aldehyde) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	1.9700E-4 0.01 0.0010 2.8000E-4 0.0022	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-8.53 -4.60 -7.75
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	1.9700E-4 0.01 0.0010 2.8000E-4 0.0022 2.063	Log-transformed Statistics Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	46 -8.53 -4.60 -7.75
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	1.9700E-4 0.01 0.0010 2.8000E-4 0.0022 2.063 3.106	Log-transformed Statistics Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test	-8.53 -4.60 -7.75 1.0
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic	1.9700E-4 0.01 0.0010 2.8000E-4 0.0022 2.063 3.106 Relevant UCL S	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data tatistics Lognormal Distribution Test Shapiro Wilk Test Statistic	-8.53 -4.60 -7.75 1.0
Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	1.9700E-4 0.01 0.0010 2.8000E-4 0.0022 2.063 3.106	Istics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data tatistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	-8.53 -4.60 -7.75 1.0
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic	1.9700E-4 0.01 0.0010 2.8000E-4 0.0022 2.063 3.106 Relevant UCL S	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data tatistics Lognormal Distribution Test Shapiro Wilk Test Statistic	46 -8.53 -4.60 -7.75 1.0
Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	1.9700E-4 0.01 0.0010 2.8000E-4 0.0022 2.063 3.106 Relevant UCL S	Istics Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data tatistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	46 -8.53 -4.60 -7.75 1.0
Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	1.9700E-4 0.01 0.0010 2.8000E-4 0.0022 2.063 3.106 Relevant UCL S	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data	46 -8.53 -4.60 -7.75 1.0
Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	1.9700E-4 0.01 0.0010 2.8000E-4 0.0022 2.063 3.106 Relevant UCL S 0.449 0.947	Istics Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	46 -8.53 -4.60 -7.75 1.0
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	1.9700E-4 0.01 0.0010 2.8000E-4 0.0022 2.063 3.106 Relevant UCL S 0.449 0.947	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	46 -8.53 -4.60 -7.75 1.0 0.6 0.9

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Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.626	Data do not follow a Discernable Distribution (0.0	05)
Theta Star	0.0017		
nu star	60.13		
Approximate Chi Square Value (.05)	43.3	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	0.00
Adjusted Chi Square Value	42.86	95% Jackknife UCL	0.00
		95% Standard Bootstrap UCL	0.00
Anderson-Darling Test Statistic	8.68	95% Bootstrap-t UCL	0.00
Anderson-Darling 5% Critical Value	0.8	95% Hall's Bootstrap UCL	0.00
Kolmogorov-Smirnov Test Statistic	0.36	95% Percentile Bootstrap UCL	0.00
Kolmogorov-Smirnov 5% Critical Value	0.134	95% BCA Bootstrap UCL	0.00
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.00
		97.5% Chebyshev(Mean, Sd) UCL	0.00
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.00
95% Approximate Gamma UCL	0.0015	22.7 2.7.32,31.07,11.041, 34, 302	2.00
95% Adjusted Gamma UCL	0.0015		***
The state of the s	0.0010		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.00
sult or 1/2 SDL (endrin ketone)			
	0 10:1		
Number of Valid Samples	General Stat	istics Number of Unique Samples	47
Number of Valid Samples Raw Statistics	w		47
	48	Number of Unique Samples	47 -8.571
Raw Statistics	48	Number of Unique Samples Log-transformed Statistics	-8.571
Raw Statistics Minimum Maximum	1.8950E-4	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	-8.571 -4.343
Raw Statistics Minimum Maximum Mean	1.8950E-4 0.013	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-8.571 -4.343 -7.945
Raw Statistics Minimum Maximum Mean	1.8950E-4 0.013 7.8543E-4	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-8.571 -4.343 -7.945
Raw Statistics Minimum Maximum Mean Median	1.8950E-4 0.013 7.8543E-4 2.7550E-4	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-8.571 -4.343 -7.945
Raw Statistics Minimum Maximum Mean Median SD	1.8950E-4 0.013 7.8543E-4 2.7550E-4 0.0020	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-8.571 -4.343 -7.945
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	1.8950E-4 0.013 7.8543E-4 2.7550E-4 0.0020 2.622	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-8.571 -4.343 -7.945
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	1.8950E-4 0.013 7.8543E-4 2.7550E-4 0.0020 2.622 5.076	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test	-8.571 -4.343 -7.945 0.86
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic	1.8950E-4 0.013 7.8543E-4 2.7550E-4 0.0020 2.622 5.076	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic	-8.571 -4.343 -7.945 0.86
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	1.8950E-4 0.013 7.8543E-4 2.7550E-4 0.0020 2.622 5.076	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SLatistics Lognormal Distribution Test Shapiro Wilk Test Statistic	-8.571 -4.343 -7.945 0.86
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic	1.8950E-4 0.013 7.8543E-4 2.7550E-4 0.0020 2.622 5.076	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic	-8.571 -4.343 -7.945 0.86
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	1.8950E-4 0.013 7.8543E-4 2.7550E-4 0.0020 2.622 5.076 Relevant UCL S	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SLatistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution	-8.571 -4.343 -7.945 0.86 0.56 0.94
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	1.8950E-4 0.013 7.8543E-4 2.7550E-4 0.0020 2.622 5.076	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	-8.571 -4.343 -7.945 0.86 0.56 0.94
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	1.8950E-4 0.013 7.8543E-4 2.7550E-4 0.0020 2.622 5.076 Relevant UCL S	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	-8.571 -4.343 -7.945 0.86 0.56 0.94 6.7884E 8.2500E
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	1.8950E-4 0.013 7.8543E-4 2.7550E-4 0.0020 2.622 5.076 Relevant UCL S	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	-8.571 -4.343 -7.945 0.86 0.56 0.94 6.7884E 8.2500E
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	48 1.8950E-4 0.013 7.8543E-4 2.7550E-4 0.0020 2.622 5.076 Relevant UCL S 0.31 0.947	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	-8.577 -4.343 -7.945 0.86 0.94 0.94 6.7884E 8.2500E 9.6143E
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	1.8950E-4 0.013 7.8543E-4 2.7550E-4 0.0020 2.622 5.076 Relevant UCL S 0.31 0.947	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-8.571 -4.343 -7.945 0.86 0.56 0.94 6.7884E 8.2500E
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL	1.8950E-4 0.013 7.8543E-4 2.7550E-4 0.0020 2.622 5.076 Relevant UCL S 0.31 0.947	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	-8.571 -4.343 -7.945 0.86 0.94 6.7884E 8.2500E 9.6143E 0.00
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL	1.8950E-4 0.013 7.8543E-4 2.7550E-4 0.0020 2.622 5.076 Relevant UCL S 0.31 0.947 0.0012 0.0015 0.0013	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	-8.577 -4.343 -7.945 0.86 0.94 6.7884E 8.2500E 9.6143E 0.00

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Approximate Chi Square Value (.05)	50.86	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	0.0012
Adjusted Chi Square Value		95% Jackknife UCL	0.001
		95% Standard Bootstrap UCL	0.001
Anderson-Darling Test Statistic	11.56	95% Bootstrap-t UCL	0.002
Anderson-Darling 5% Critical Value	0.792	95% Hall's Bootstrap UCL	0.002
Kolmogorov-Smirnov Test Statistic	0.412	95% Percentile Bootstrap UCL	0.001
Kolmogorov-Smirnov 5% Critical Value	0.133	95% BCA Bootstrap UCL	0.001
Data not Gamma Distributed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL	0.002
	**************************************	97.5% Chebyshev(Mean, Sd) UCL	0.002
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.003
95% Approximate Gamma UCL	0.0010		interessing to seem to consider of
95% Adjusted Gamma UCL	0.0010		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.002
Result or 1/2 SDL (fluoranthene)			
	General	Statistics	***************************************
Number of Valid Samples	48	Number of Unique Samples	34
Raw Statistics		Log-transformed Statistics	mannager gengengen mageen
Minimum	0.0032	Minimum of Log Data	-5.734
Maximum	2.17	Maximum of Log Data	0.775
Mean	0.108	Mean of log Data	-4.039
Median	0.0065		1.566
SD	0.368		
Coefficient of Variation	3.399		
Skewness	4.909		
	Polovant I I	DL Statistics	
Normal Distribution Test	velevani oc	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.309	Shapiro Wilk Test Statistic	0.815
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.947
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.198	95% H-UCL	0.119
95% UCLs (Adjusted for Skewness)	2.222	95% Chebyshev (MVUE) UCL	0.132
95% Adjusted-CLT UCL 95% Modified-t UCL	0.236	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	0.165 0.229
33 /a Wodined-L OCL	0.204	33 % Griedystiev (INVOL.) OCL	J.ZZ3
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.358	Data do not follow a Discernable Distribution (0.05)
Theta Star	0.302		
nu·star	34.4		
Approximate Chi Square Value (.05)	21.98	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	0.196
Adjusted Chi Square Value	21.67	95% Jackknife UCL	0.198
		95% Standard Bootstrap UCL	0.196
Anderson-Darling Test Statistic	6.501	95% Bootstrap-t UCL	0.656

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Anderson-Darling 5% Critical Value	0.846	95% Hall's Bootstrap UCL	0.596
Kolmogorov-Smirnov Test Statistic	0.282	95% Percentile Bootstrap UCL	0.20
Kolmogorov-Smirnov 5% Critical Value	0.138	95% BCA Bootstrap UCL	0.26
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.34
		97.5% Chebyshev(Mean, Sd) UCL	0.44
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.63
95% Approximate Gamma UCL	0.17		
95% Adjusted Gamma UCL	0.172		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.63
esult or 1/2 SDL (fluorene)			
	General S	Statistics	den den en
Number of Valid Samples	48	Number of Unique Samples	38
Raw Statistics		Log-transformed Statistics	
Minimum	0.0033	Minimum of Log Data	-5.715
Maximum	0.139	Maximum of Log Data	-1.973
Mean	0.0186	Mean of log Data	-4.783
Median	0.0055	SD of log Data	1.08
SD	0.0314		
Coefficient of Variation	1.687		
Skewness	2.593		P
		L Statistics	
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.54	Lognormal Distribution Test Shapiro Wilk Test Statistic	0.73 0.94
	0.54	Lognormal Distribution Test	
Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	0.54	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	
Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	0.54 0.947	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution	0.94
Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	0.54	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	0.94
Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.54 0.947	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	0.94 0.02 0.02
Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	0.54 0.947	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	0.94 0.02 0.02 0.03
Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.54 0.947 0.0262	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	0.94 0.02 0.02
Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test	0.54 0.947 0.0262 0.0279 0.0265	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	0.94 0.02 0.02 0.03 0.04
Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL	0.54 0.947 0.0262 0.0279 0.0265	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	0.94 0.02 0.02 0.03 0.04
Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test	0.54 0.947 0.0262 0.0279 0.0265	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	0.02 0.02 0.03 0.04
Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected)	0.54 0.947 0.0262 0.0279 0.0265	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	0.02 0.02 0.03 0.04
Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star	0.54 0.947 0.0262 0.0279 0.0265 0.717 0.0259	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	0.02 0.02 0.03 0.04
Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star	0.54 0.947 0.0262 0.0279 0.0265 0.717 0.0259 68.81	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05)	0.02 0.02 0.03 0.04
Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05)	0.54 0.947 0.0262 0.0279 0.0265 0.717 0.0259 68.81 50.71	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05) Nonparametric Statistics	0.02 0.02 0.03 0.04
Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance	0.54 0.947 0.0262 0.0279 0.0265 0.717 0.0259 68.81 50.71 0.045	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05) Nonparametric Statistics 95% CLT UCL	0.94 0.02 0.03 0.04
Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance	0.54 0.947 0.0262 0.0279 0.0265 0.717 0.0259 68.81 50.71 0.045	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05) Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL	0.94 0.02 0.03 0.04 0.04
Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value	0.54 0.947 0.0262 0.0279 0.0265 0.717 0.0259 68.81 50.71 0.045 50.23	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05) Nonparametric Statistics 95% CLT UCL 95% Standard Bootstrap UCL	0.92 0.02 0.03 0.04 0.02 0.02 0.02 0.02
Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic	0.54 0.947 0.0262 0.0279 0.0265 0.717 0.0259 68.81 50.71 0.045 50.23	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05) Nonparametric Statistics 95% CLT UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL	0.92 0.02 0.03 0.04 5) 0.02 0.02 0.02
Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value	0.54 0.947 0.0262 0.0279 0.0265 0.717 0.0259 68.81 50.71 0.045 50.23 7.338 0.792	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05) Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Bootstrap UCL 95% Bootstrap-t UCL	0.94 0.02 0.03 0.04 5)
Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic	0.54 0.947 0.0262 0.0279 0.0265 0.717 0.0259 68.81 50.71 0.045 50.23 7.338 0.792 0.359 0.133	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05) Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL	0.92 0.02 0.03 0.04 0.02 0.02 0.02 0.02 0.02

	um e Stee		
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.063
95% Approximate Gamma UCL	0.0252		
95% Adjusted Gamma UCL	0.0255		
Potential UCL to Use	manage parage and the second	Use 99% Chebyshev (Mean, Sd) UCL	0.063
	***************************************		ection section to the best read
esult or 1/2 SDL (gamma-chlordane)			
	General	Statistics	
Number of Valid Samples	48	Number of Unique Samples	45
Davi Obstitution		Constitution of the second sec	
Raw Statistics	14.00005.4	Log-transformed Statistics	
	1.2000E-4	Minimum of Log Data	-9.028
Maximum			-5.627
	4.0476E-4	Mean of log Data	-8.298
	2.1800E-4	SD of log Data	0.78
SD	6.7074E-4		
Coefficient of Variation	1.657		
Skewness	3.738		
	Relevant U	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.435	Shapiro Wilk Test Statistic	0.75
Shapiro Wilk Critical Value	{	Shapiro Wilk Critical Value	0.75
Data not Normal at 5% Significance Level	0.947	Data not Lognormal at 5% Significance Level	0.34
Assuming Normal Distribution	t ki kana mpa majapan anka mpa kipansani sanaanapada sa.	Assuming Lognormal Distribution	
95% Student's-t UCL	5.6720E-4	95% H-UCL 4.	.2977E-
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL 5.	.1879E-
95% Adjusted-CLT UCL	6.1982E-4	97.5% Chebyshev (MVUE) UCL 5.	
95% Modified-t UCL	(99% Chebyshev (MVUE) UCL 7.	
	A		
Gamma Distribution Test	7 4 4 7	Data Distribution	
k star (bias corrected)	1	Data do not follow a Discernable Distribution (0.05))
i neta Star nu star	3.6480E-4 106.5		
Approximate Chi Square Value (.05)	83.7	Nonparametric Statistics	atmother grand
Adjusted Level of Significance	ì	95% CLT UCL 5.	SADOE
Adjusted Chi Square Value		95% Jackknife UCL 5.	
Adjusted Chi Square Value	63.07		**********
MACHINE TO THE THE THE THE THE THE THE THE THE THE		95% Standard Bootstrap UCL 5.	
Anderson-Darling Test Statistic	J	95% Bootstrap-t UCL 7.	
Anderson-Darling 5% Critical Value	1	95% Hall's Bootstrap UCL 6.	
Kolmogorov-Smirnov Test Statistic		95% Percentile Bootstrap UCL 5.	
Kolmogorov-Smirnov 5% Critical Value	[95% BCA Bootstrap UCL 6.	
Data not Gamma Distributed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL 8.	
		97.5% Chebyshev(Mean, Sd) UCL	0.00
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.001
95% Approximate Gamma UCL	5.1511E-4		
95% Adjusted Gamma UCL	5.1899E-4		
Potential UCL to Use	The state of the s	Use 95% Chebyshev (Mean, Sd) UCL 8.	2676⊑
Folential OCL to Use	and the state of t	Use 95% Chebysnev (Wean, Sq) UCL 8.	∠0/0Ľ-4

lt or 1/2 SDL (indeno(1,2,3-cd)pyrene)			
	General Stat	istics	*****************
Number of Valid Samples	48	Number of Unique Samples	40
Raw Statistics		Log-transformed Statistics	
Minimum	0.0065	Minimum of Log Data	-5.03
Maximum	1.94	Maximum of Log Data	0.6
Mean	0.201	Mean of log Data	-3.03
Median	0.0629	SD of log Data	1.6
SD	0.407		
Coefficient of Variation	2.025		
Skewness	2.987		
F	Relevant UCL S	statistics	
Normal Distribution Test		Lognormal Distribution Test	Cade - spensyd LD Ede adestydd
Shapiro Wilk Test Statistic	0.535	Shapiro Wilk Test Statistic	0.8
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.9
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	and an analysis of the state of	Assuming Lognormal Distribution	
95% Student's-t UCL	0.299	95% H-UCL	0.4
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.4
95% Adjusted-CLT UCL	0.324	97.5% Chebyshev (MVUE) UCL	0.5
95% Modified-t UCL	0.304	99% Chebyshev (MVUE) UCL	0.7
Gamma Distribution Test		Data Distribution	and consequent controllers.
k star (bias corrected)	0.437	Data do not follow a Discernable Distribution (0.05	`
Theta Star	0.46	Data do not lonow a Discernation Distribution (0.00	<i>,</i>
nu star	41.91		
Approximate Chi Square Value (.05)	28.07	Nonparametric Statistics	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Adjusted Level of Significance	0.045	95% CLT UCL	0.2
Adjusted Chi Square Value	27.72	95% Jackknife UCL	0.2
		95% Standard Bootstrap UCL	0.2
Anderson-Darling Test Statistic	3.169	95% Bootstrap-t UCL	0.3
Anderson-Darling 5% Critical Value	0.826	95% Hall's Bootstrap UCL	0.3
Kolmogorov-Smirnov Test Statistic	0.199	95% Percentile Bootstrap UCL	0.3
Kolmogorov-Smirnov 5% Critical Value	0.136	95% BCA Bootstrap UCL	0.3
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.4
		97.5% Chebyshev(Mean, Sd) UCL	0.5
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.7
95% Approximate Gamma UCL	0.3		V
95% Adjusted Gamma UCL	0.304		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.7

General Statistics

Number of Valid Samples	48	Number of Unique Samples	37
			######################################
Raw Statistics	111100	Log-transformed Statistics	
Minimum		Minimum of Log Data	9.31
Maximum	60900	Maximum of Log Data	11.02
Mean		Mean of log Data	9.71
Median	16650	SD of log Data	0.25
SD	6903		
Coefficient of Variation	0.402		
Skewness .	5.582		e que apparent particular de la constitución de la
	Relevant U	CL Statistics	
Normal Distribution Test	and the state of t	· Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.466	Shapiro Wilk Test Statistic	0.75
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.94
Data not Normal at 5% Significance Level	**************************************	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	** 4 M J ** 8 P L M L M L N M ** 1 L T M ** 1
95% Student's-t UCL	18824	95% H-UCL	18113
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	19692
95% Adjusted-CLT UCL	19649	97.5% Chebyshev (MVUE) UCL	20862
95% Modified-t UCL	18958		23161
Gamma Distribution Test	b-14-2	Data Distribution	
k star (bias corrected)	11.83	Data do not follow a Discernable Distribution (0.0	<u> </u>
	1450	Data do not follow a Discernable Distribution (0.0	
Theta Star	1430		announce announce of
nu star Approximate Chi Square Value (.05)		Nonparametric Statistics	• • • • • • • • • • • • • • • • • • •
	1058	•	10701
Adjusted Level of Significance	0.045	95% CLT UCL	
Adjusted Chi Square Value	1056	95% Jackknife UCL	18824
	0.400	1	18743
Anderson-Darling Test Statistic	3.403	<u>' 1</u>	20880
Anderson-Darling 5% Critical Value	0.749		25732
Kolmogorov-Smirnov Test Statistic	0.204	· 1	18919
Kolmogorov-Smirnov 5% Critical Value	0.128		20054
Data not Gamma Distributed at 5% Significance Lo	evel		21495
			23374
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	27065
95% Approximate Gamma UCL	18404		
95% Adjusted Gamma UCL	18444		
Potential UCL to Use	itangle composit or consequence and are a rate of the consequence.	Use 95% Student's-t UCL	18824
		or 95% Modified-t UCL	18958
Potential UCL to Use Jit or 1/2 SDL (lead)			
	General	Statistics	r (tipe ar implied thinks) at
Number of Valid Samples	48	Number of Unique Samples	45
Raw Statistics		Log-transformed Statistics	

			Control Control Control
Maximum	237	Maximum of Log Data	5.468
Mean	<u> </u>	Mean of log Data	2.969
Median	<u> </u>	SD of log Data	0.571
SD	L		
Coefficient of Variation	<u> </u>		
Skewness			olar partirol deliquitation de
	Delevent UCL	Chaliatica	
Normal Distribution Test	Relevant UCL	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.385	Shapiro Wilk Test Statistic	0.778
Shapiro Wilk Critical Value	l	Shapiro Wilk Pest Statistic	0.776
Data not Normal at 5% Significance Level	0.947	Data not Lognormal at 5% Significance Level	0.947
Data not Normal at 3% diginicalite Level		Data not cognomial at 3% significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	anger proposition and anger a reserving or
95% Student's-t UCL	33.62	95% H-UCL	26.93
95% UCLs (Adjusted for Skewness)	L	95% Chebyshev (MVUE) UCL	31.57
95% Adjusted-CLT UCL	37.6	97.5% Chebyshev (MVUE) UCL	35.35
95% Modified-t UCL	34.27	99% Chebyshev (MVUE) UCL	42.77
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.932	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	13.13		
nu star	185.5		*************
Approximate Chi Square Value (.05)	155	Nonparametric Statistics	upiquaniquarina-iin-
Adjusted Level of Significance	0.045	95% CLT UCL	33.46
Adjusted Chi Square Value	154.1	95% Jackknife UCL	33.62
		95% Standard Bootstrap UCL	33.36
Anderson-Darling Test Statistic	5.696	95% Bootstrap-t UCL	50.53
Anderson-Darling 5% Critical Value	0.762	95% Hall's Bootstrap UCL	62.18
Kolmogorov-Smirnov Test Statistic	0.264	95% Percentile Bootstrap UCL	34.16
Kolmogorov-Smirnov 5% Critical Value	0.129	95% BCA Bootstrap UCL	39.39
Data not Gamma Distributed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL	46.83
		97.5% Chebyshev(Mean, Sd) UCL	56.12
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	74.38
95% Approximate Gamma UCL	30.35		
95% Adjusted Gamma UCL	30.52		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	46.83
esult or 1/2 SDL (lithium)			
	General Sta	tistics	gangangan ang ang ang ang
Number of Valid Samples	48	Number of Unique Samples	43
Raw Statistics		Log-transformed Statistics	
Minimum	5.43	Minimum of Log Data	1.692
Maximum	27.6	Maximum of Log Data	3.318
Mean	18.65	Mean of log Data	2.9
Median	18.75	SD of log Data	0.25
SD	3.754		
Coefficient of Variation	0.201		

Skewness	-0.745		
	D-1	OL	
Normal Distribution Test	Relevant UC	CL Statistics Lognormal Distribution Test	
	0.966	Cognormal Distribution Test Shapiro Wilk Test Statistic	0.81
Shapiro Wilk Certifical Value		Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.81
Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level	i .	Data not Lognormal at 5% Significance Level	0.94
Data appear Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	•
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	19.56	95% H-UCL	19.99
95% UCLs (Adjusted for Skewness)	1	95% Chebyshev (MVUE) UCL	21.73
95% Adjusted-CLT UCL	19.48	97.5% Chebyshev (MVUE) UCL	23.03
95% Modified-t UCL	19.55	99% Chebyshev (MVUE) UCL	25.5
	1		
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	18.42	Data appear Normal at 5% Significance Level	
Theta Star	1.013		
nu star	1768		respective and the monthly of
Approximate Chi Square Value (.05)	1671	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	19.5
Adjusted Chi Square Value	1668	95% Jackknife UCL	19.56
		95% Standard Bootstrap UCL	19.5
Anderson-Darling Test Statistic	1.236	95% Bootstrap-t UCL	19.53
Anderson-Darling 5% Critical Value	0.748	95% Hall's Bootstrap UCL	19.5
Kolmogorov-Smirnov Test Statistic	0.139	95% Percentile Bootstrap UCL	19.5
Kolmogorov-Smirnov 5% Critical Value	0.128	95% BCA Bootstrap UCL	19.49
Data not Gamma Distributed at 5% Significance L	<u> </u>	95% Chebyshev(Mean, Sd) UCL	21.02
		97.5% Chebyshev(Mean, Sd) UCL	22.04
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	24.05
95% Approximate Gamma UCL	19.73	3070 Globyshov (Modif, Gd) COL	
95% Adjusted Gamma UCL	19.77		
	10.77		
Potential UCL to Use		Use 95% Student's-t UCL	19.56
sult or 1/2 SDL (manganese)			
	General S	Statistics	
Number of Valid Samples	48	Number of Unique Samples	48
Raw Statistics		Log-transformed Statistics	
Minimum	87.6	Minimum of Log Data	4.47
Maximum	1010	Maximum of Log Data	6.91
Mean	331.8	Mean of log Data	5.63
Median	275	SD of log Data	0.58
SD	205.9		
Coefficient of Variation	0.621		
Skewness	1.558		
	Relevant UC		
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.856	Shapiro Wilk Test Statistic	0.9

Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.94
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	.
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	381.7	95% H-UCL	392.8
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	461.4
95% Adjusted-CLT UCL	387.8	97.5% Chebyshev (MVUE) UCL	517.6
95% Modified-t UCL	382.8	99% Chebyshev (MVUE) UCL	627.9
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	2.977	Data appear Gamma Distributed at 5% Significance	l ovol
Theta Star	111.4	Data appear Garrina Distributed at 3% Significance	LC4C!
	285.8		
nu star			process constraints (1991)
Approximate Chi Square Value (.05)	247.7	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	380.7
Adjusted Chi Square Value	246.6	95% Jackknife UCL	381.7
		95% Standard Bootstrap UCL	380.3
Anderson-Darling Test Statistic		95% Bootstrap-t UCL	391.8
Anderson-Darling 5% Critical Value	0.756	95% Hall's Bootstrap UCL	391.7
Kolmogorov-Smirnov Test Statistic	0.116	95% Percentile Bootstrap UCL	382.9
Kolmogorov-Smirnov 5% Critical Value	0.129	95% BCA Bootstrap UCL	389.1
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	461.3
		97.5% Chebyshev(Mean, Sd) UCL	517.4
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	627.5
95% Approximate Gamma UCL	382.9		ar y ar a resident a service d'account d'account d'account d'account d'account d'account d'account d'account d
95% Adjusted Gamma UCL	384.6		
Potential UCL to Use		Use 95% Approximate Gamma UCL	382.9
sult or 1/2 SDL (mercury)			
	General St		
Number of Valid Samples	48	Number of Unique Samples	36
Raw Statistics		Log-transformed Statistics	
Minimum	0.0012	Minimum of Log Data	-6.685
Maximum	0.081	Maximum of Log Data	-2.513
Mean	0.0199	Mean of log Data	-4.305
Median	0.0113	SD of log Data	0.89
SD	0.0194		
Coefficient of Variation	0.974		
Skewness	1.757		
	Relevant UCL		
Normal Distribution Test	0.750	Lognormal Distribution Test	A 05
Shapiro Wilk Test Statistic	0.756	Shapiro Wilk Test Statistic	0.95
Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	0.947	Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level	0.94 I
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0246	95% H-UCL	0.02

95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.032
95% Adjusted-CLT UCL	0.0253	97.5% Chebyshev (MVUE) UCL	0.03
95% Modified-t UCL	0.0247	99% Chebyshev (MVUE) UCL	0.04
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.356	Data appear Lognormal at 5% Significance Leve	I
Theta Star	0.0147	Michille Method (Method (menter) programment as at Michille (menter) menter (menter) programment (menter) menter (menter) ment	ordere francours (Nedocks, top entry
nu star	130.2		5(n-m#)+1-(1-41-41-41-41-41-41-41-41-41-41-41-41-41
Approximate Chi Square Value (.05)	104.8	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	0.02
Adjusted Chi Square Value	104.1	95% Jackknife UCL	0.02
		95% Standard Bootstrap UCL	0.02
Anderson-Darling Test Statistic	1.641	95% Bootstrap-t UCL	0.02
Anderson-Darling 5% Critical Value	0.769	95% Hall's Bootstrap UCL	0.02
Kolmogorov-Smirnov Test Statistic	0.194	95% Percentile Bootstrap UCL	0.02
Kolmogorov-Smirnov 5% Critical Value	0.13	95% BCA Bootstrap UCL	0.02
Data not Gamma Distributed at 5% Significance Lo		95% Chebyshev(Mean, Sd) UCL	0.0
		97.5% Chebyshev(Mean, Sd) UCL	0.03
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0
95% Approximate Gamma UCL	0.0247		
95% Adjusted Gamma UCL	0.0249		
			restation of the determinan
Potential UCL to Use		Use 95% H-UCL	0.0
It or 1/2 SDL (molybdenum)			
	General Sta		20
It or 1/2 SDL (molybdenum) Number of Valid Samples	General Sta	tistics Number of Unique Samples	39
			39
Number of Valid Samples		Number of Unique Samples	
Number of Valid Samples Raw Statistics	48	Number of Unique Samples Log-transformed Statistics	-3.29
Number of Valid Samples Raw Statistics Minimum	0.037	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	-3.29 1.1
Number of Valid Samples Raw Statistics Minimum Maximum	0.037	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-3.29 ⁻ 1.17 -1.17
Number of Valid Samples Raw Statistics Minimum Maximum Mean	0.037 3.24 0.581	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-3.29 ⁻ 1.17 -1.17
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	0.037 3.24 0.581 0.38	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-3.29 1.1 -1.17
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	0.037 3.24 0.581 0.38 0.677	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-3.29 1.1 -1.17
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.037 3.24 0.581 0.38 0.677 1.166	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-3.29 ⁻ 1.17 -1.17
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.037 3.24 0.581 0.38 0.677 1.166 2.313	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-3.29 ⁻ 1.17 -1.17
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.037 3.24 0.581 0.38 0.677 1.166 2.313	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Mean of log Data SD of log Data SD of log Data SLognormal Distribution Test	-3.29 1.17 -1.17! 1.28
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic	0.037 3.24 0.581 0.38 0.677 1.166 2.313	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic	-3.29 1.17 -1.179 1.29
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.037 3.24 0.581 0.38 0.677 1.166 2.313	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Mean of log Data SD of log Data SD of log Data SLognormal Distribution Test	39 -3.297 1.17 -1.175 1.25
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	0.037 3.24 0.581 0.38 0.677 1.166 2.313	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	-3.29 1.17 -1.179 1.29
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	0.037 3.24 0.581 0.38 0.677 1.166 2.313 Relevant UCL \$	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution	-3.297 1.17 -1.178 1.25
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	0.037 3.24 0.581 0.38 0.677 1.166 2.313	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	-3.297 1.17 -1.178 1.28 0.90 0.94
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.037 3.24 0.581 0.38 0.677 1.166 2.313 Relevant UCL \$ 0.726 0.947	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-3.29 1.17 -1.17! 1.28 0.90 0.90
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.037 3.24 0.581 0.38 0.677 1.166 2.313 Relevant UCL S 0.726 0.947	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-3.297 1.17 -1.178 1.25 0.90 0.94 1.09 1.31
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.037 3.24 0.581 0.38 0.677 1.166 2.313 Relevant UCL \$ 0.726 0.947	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-3.29° 1.1' -1.17' 1.29 0.90 0.90 1.00

k star (bias corrected)	0.88	Data Follow Appr. Gamma Distribution at 5% Significant	e Leve
Theta Star	0.66		***************************************
nu star	84.46		
Approximate Chi Square Value (.05)	64.28	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	0.74
Adjusted Chi Square Value	63.73	95% Jackknife UCL	0.74
		95% Standard Bootstrap UCL	0.7
Anderson-Darling Test Statistic	0.995	95% Bootstrap-t UCL	0.79
Anderson-Darling 5% Critical Value	0.783	95% Hall's Bootstrap UCL	0.7
Kolmogorov-Smirnov Test Statistic	0.126	95% Percentile Bootstrap UCL	0.7
Kolmogorov-Smirnov 5% Critical Value	0.132	95% BCA Bootstrap UCL	0.7
Data follow Appr. Gamma Distribution at 5% Significar	ice Level	95% Chebyshev(Mean, Sd) UCL	1.0
		97.5% Chebyshev(Mean, Sd) UCL	1.1
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.5
95% Approximate Gamma UCL	0.763		****************
95% Adjusted Gamma UCL	0.769		
Potential UCL to Use	Annual Control of the	Use 95% Approximate Gamma UCL	0.7
sult or 1/2 SDL (nickel)			
	General S		
Number of Valid Samples	50	Number of Unique Samples	43
Raw Statistics		Log-transformed Statistics	
Minimum	10.9	Minimum of Log Data	2.3
Maximum	27.7	Maximum of Log Data	3.3
Mean	17.29	Mean of log Data	2.8
Median	17.3	SD of log Data	0.1
SD	3.391		
Coefficient of Variation	0.196		
Skewness	0.421		
Normal Distribution Test	Relevant UC	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.974	Shapiro Wilk Test Statistic	0.9
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.9
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	***********
95% Student's-t UCL	18.09	95% H-UCL	18.1
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	19.4
95% Adjusted-CLT UCL	18.11	97.5% Chebyshev (MVUE) UCL	20.3
95% Modified-t UCL	18.09	99% Chebyshev (MVUE) UCL	22.1
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	25.02	Data appear Normal at 5% Significance Level	
Theta Star	0.691		
nu star	2502		
Approximate Chi Square Value (.05)	2387	Nonparametric Statistics	
Adjusted Level of Significance	0.0452	95% CLT UCL	18.0

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Adjusted Chi Saussa Value	2383	95% Jackknife UCL	18.09
Adjusted Chi Square Value	2383		18.07
A. J D. Jing T. A Olaffati	0.000	95% Standard Bootstrap UCL	18.07
Anderson-Darling Test Statistic		95% Bootstrap-t UCL 95% Hall's Bootstrap UCL	18.12
Anderson-Darling 5% Critical Value	0.748	,	
Kolmogorov-Smirnov Test Statistic		95% Percentile Bootstrap UCL	18.04
Kolmogorov-Smirnov 5% Critical Value	0.125	95% BCA Bootstrap UCL	18.05
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	19.38
		97.5% Chebyshev(Mean, Sd) UCL	20.28
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	22.06
95% Approximate Gamma UCL			
95% Adjusted Gamma UCL	18.15		
Potential UCL to Use		Use 95% Student's-t UCL	18.09
Result or 1/2 SDL (phenanthrene)	General S	Statistics	
Number of Valid Samples	48	Number of Unique Samples	41
Raw Statistics	n en	Log-transformed Statistics	and the same of th
Minimum	0.0030	Minimum of Log Data	-5.783
Maximum	1.3	Maximum of Log Data	0.262
Mean	0.0761	Mean of log Data	-4.26
Median	0.0070	SD of log Data	1.508
SD	0.248		
Coefficient of Variation	3.26		
Skewness	4.606		***************************************
	Relevant UC	CL Statistics	
Normal Distribution Test	**************************************	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.309	Shapiro Wilk Test Statistic	0.84
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.947
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.136	95% H-UCL	0.083
95% UCLs (Adjusted for Skewness)	· H· · Merceller British i	95% Chebyshev (MVUE) UCL	0.094
95% Adjusted-CLT UCL	0.16	97.5% Chebyshev (MVUE) UCL	0.118
95% Modified-t UCL	0.14	99% Chebyshev (MVUE) UCL	0.162
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.381	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	0.2		• 1
nu star	36.62		
Approximate Chi Square Value (.05)	23.77	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	0.135
Adjusted Chi Square Value	23.45	95% Jackknife UCL	0.136
		95% Standard Bootstrap UCL	0.136
Anderson-Darling Test Statistic	5.99	95% Bootstrap-t UCL	0.472
Anderson-Darling 5% Critical Value	0.84	95% Hall's Bootstrap UCL	0.43
Kolmogorov-Smirnov Test Statistic	0.276	95% Percentile Bootstrap UCL	0.139

			andonench (h.)
Kolmogorov-Smirnov 5% Critical Value	0.137	95% BCA Bootstrap UCL	0.
Data not Gamma Distributed at 5% Significance L	l I	95% Chebyshev(Mean, Sd) UCL	0.2
	4	97.5% Chebyshev(Mean, Sd) UCL	0.
Assuming Gamma Distribution	and the same of th	99% Chebyshev(Mean, Sd) UCL	0.
95% Approximate Gamma UCL	0.117		
95% Adjusted Gamma UCL	0.119		Mary and and the second

Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.4
sult or 1/2 SDL (pyrene)			
	General St		
Number of Valid Samples	48	Number of Unique Samples	38
Raw Statistics		Log-transformed Statistics	
Minimum	0.0040	Minimum of Log Data	-5.5
Maximum	1.64	Maximum of Log Data	0.
Mean	0.154	Mean of log Data	-3.5
Median	0.0113	SD of log Data	1.
SD	0.355		
Coefficient of Variation	2.305		
Skewness	3.1		
	Relevant UCL	Statistics	ny managhana
Normal Distribution Test		Lognormal Distribution Test	*******************
Shapiro Wilk Test Statistic	0.48	Shapiro Wilk Test Statistic	0.
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.24	95% H-UCL	0.
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.
95% Adjusted-CLT UCL 95% Modified-t UCL	0.263 0.244	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	0. 0.
33 % Modilled-L OCL	0.244	99% Chebyshev (WVOE) OCL	0.
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.377	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.408		
nu star	36.18		
Approximate Chi Square Value (.05)	23.41	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	0.
Adjusted Chi Square Value	23.1	95% Jackknife UCL	0.
	dint state seria es quantitat con la constitución de la constitución d	95% Standard Bootstrap UCL	0.
Anderson-Darling Test Statistic	4.849	95% Bootstrap-t UCL	0.
Anderson-Darling 5% Critical Value	0.841	95% Hall's Bootstrap UCL	0.
Kolmogorov-Smirnov Test Statistic	0.256	95% Percentile Bootstrap UCL	0.
Kolmogorov-Smirnov 5% Critical Value	0.137	95% BCA Bootstrap UCL	0.
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.
		97.5% Chebyshev(Mean, Sd) UCL	0.
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.
95% Approximate Gamma UCL	0.238		

95% Adjusted Gamma UCL	0.241		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.6
			0.0
ult or 1/2 SDL (strontium)			
	General Sta	atistics	
Number of Valid Samples	48	Number of Unique Samples	47
Raw Statistics		Log-transformed Statistics	·
Minimum	18.8	Minimum of Log Data	2.9
Maximum	330	Maximum of Log Data	5.7
Mean	67	Mean of log Data	4.0
Median	54	SD of log Data	0.5
SD	52.81		
Coefficient of Variation	0.788		
Skewness	3.229		unum mannana.
Normal Distribution Test	Relevant UCL	Statistics Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.671	Shapiro Wilk Test Statistic	0.9
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.9
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	79.79	95% H-UCL	76.3
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	89.2
95% Adjusted-CLT UCL	83.33	97.5% Chebyshev (MVUE) UCL	99.7
95% Modified-t UCL	80.38	99% Chebyshev (MVUE) UCL	120.3
Gamma Distribution Test		Data Distribution	······································
k star (bias corrected)	2.764	Data appear Lognormal at 5% Significance Leve	
Theta Star	24.24		
, nu star	265.3		
Approximate Chi Square Value (.05)	228.6	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	79.5
Adjusted Chi Square Value	227.6	95% Jackknife UCL	79.7
		95% Standard Bootstrap UCL	79.5
Anderson-Darling Test Statistic	1.725	95% Bootstrap-t UCL	87.3
Anderson-Darling 5% Critical Value	0.757	95% Hajl's Bootstrap UCL	98.0
Kolmogorov-Smirnov Test Statistic	0.177	95% Percentile Bootstrap UCL	80.2
Kolmogorov-Smirnov 5% Critical Value	0.129	95% BCA Bootstrap UCL	84.9
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	100.2
		97.5% Chebyshev(Mean, Sd) UCL	114.6
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	142.8
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	77.76 78.12		
30 /s Asjusted Gamind OCL	70.12		

Maximum Mean Maximum Mean Maximum of tog Data 1.5		General	Statistics	
Minimum 0.2 Minimum of Log Data 1.80	Number of Valid Samples	48	Number of Unique Samples	31
Minimum Maximum 4.61 Maximum of Log Data 1.80	Raw Statistics		Log-transformed Statistics	
Maximum Maxi		0.2		-1.609
Mean 0.638			1	1.52
Median 0.3 SD of log Data 0.7				-0.895
Coefficient of Variation				0.72
Relevant UCL Statistics Relevant UCL Statistics Normal Distribution Test Lognormal Distribution Test Shapiro Wilk Test Statistic 0.408 Shapiro Wilk Test Statistic 0.65 Shapiro Wilk Critical Value 0.947 Shapiro Wilk Critical Value 0.55 Data not Normal at 5% Significance Level Data not Lognormal at 5% Significance Level Data not Lognormal at 5% Significance Level Data not Lognormal Distribution Assuming Lognormal Distribution 95% Student's-t UCL 0.877 95% H-UCL 0.67 95% H-UCL 0.67 95% K-Debyshev (MVUE) UCL 0.70 95% Modified-t UCL 0.943 97.5% Chebyshev (MVUE) UCL 0.70 95% Modified-t UCL 0.888 99% Chebyshev (MVUE) UCL 0.70 95% Modified-t UCL 0.888 99% Chebyshev (MVUE) UCL 0.70	SD	0.991		
Normal Distribution Test	Coefficient of Variation	1.554		
Normal Distribution Test	Skewness	3.165		
Normal Distribution Test	F	Relevant U	CI Statistics	
Data not Normal at 5% Significance Level				
Data not Normal at 5% Significance Level	Shapiro Wilk Test Statistic	0.408	Shapiro Wilk Test Statistic	0.62
Assuming Normal Distribution 95% Student's-t UCL 0.877 95% H-UCL 0.6 95% UCLs (Adjusted for Skewness) 95% Chebyshev (MVUE) UCL 0.7 95% Adjusted-CLT UCL 0.943 97.5% Chebyshev (MVUE) UCL 0.9 95% Modified-t UCL 0.888 99% Chebyshev (MVUE) UCL 1.1 Gamma Distribution Test Data Distribution k star (bias corrected) 1.199 Data do not follow a Discernable Distribution (0.05) Theta Star 0.532 Theta Star 0.532 Theta Star 115.1 Approximate Chi Square Value (0.05) 91.31 Nonparametric Statistics Adjusted Level of Significance 0.045 95% CLT UCL 0.8 Adjusted Level of Significance 0.045 95% Standard Bootstrap UCL 0.8 Adjusted Chi Square Value 0.773 95% Blail's Bootstrap UCL 0.8 Kolmogorov-Smirnov Test Statistic 0.344 95% Percentile Bootstrap UCL 0.8 Kolmogorov-Smirnov 5% Critical Value 0.131 95% BCA Bootstrap UCL 0.9 Data not Gamma Distributed at 5% Significance Level 95% Chebyshev (Mean, Sd) UCL 1.2 Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 1.2	Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.94
95% Student's-t UCL	Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
95% Student's-t UCL	Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Adjusted-CLT UCL 95% Modified-t UCL 0.888 99% Chebyshev (MVUE) UCL 1.1 Gamma Distribution Test Data Distribution k star (bias corrected) 1.199 Data do not follow a Discernable Distribution (0.05) Theta Star 0.532 nu star 115.1 Approximate Chi Square Value (.05) 91.31 Nonparametric Statistics Adjusted Level of Significance 0.045 95% Standard Bootstrap UCL 0.8 Adjusted Chi Square Value 99.65 95% Standard Bootstrap UCL 0.8 Anderson-Darling Test Statistic 9.6 95% Bootstrap-t UCL 1.0 Anderson-Darling Test Statistic 0.344 95% Percentile Bootstrap UCL 0.8 Kolmogorov-Smirnov Test Statistic 0.344 95% Percentile Bootstrap UCL 0.8 Kolmogorov-Smirnov 5% Critical Value 0.131 95% BCA Bootstrap UCL 0.9 Data not Gamma Distributed at 5% Significance Level 95% Chebyshev (Mean, Sd) UCL 1.2 97.5% Chebyshev (Mean, Sd) UCL 1.2 95% Adjusted Gamma UCL 0.809 Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 1.2	95% Student's-t UCL	0.877		0.66
Section Sect	95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.79
Gamma Distribution Test k star (bias corrected) Theta Star 0.532 nu star 115.1 Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value 90.65 95% Standard Bootstrap UCL Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Nonparametric Statistics 95% Bootstrap UCL Anderson-Darling 5% Critical Value Nonparametric Statistics 95% Standard Bootstrap UCL Anderson-Darling 5% Critical Value Nonparametric Statistics 95% Standard Bootstrap UCL Nonparametric Statistics 95% Bootstrap UCL Nonparametric Statistics 95% Standard Bootstrap UCL Nonparametric Statistics 95% Bootstrap UCL Nonparametric Statistics 95% Bootstrap UCL Nonparametric Statistics 95% Bootstrap UCL Nonparametric Statistics 95% Percentile Bootstrap UCL Nonparametric Statistics 95% Bootstrap UCL Nonpa	95% Adjusted-CLT UCL	0.943	97.5% Chebyshev (MVUE) UCL	0.91
Nonparametric Statistics Nonparametric Statistics	95% Modified-t UCL	0.888	99% Chebyshev (MVUE) UCL	1.13
Theta Star 0.532 nu star 115.1 Approximate Chi Square Value (.05) 91.31 Adjusted Level of Significance 0.045 Adjusted Chi Square Value 90.65 Anderson-Darling Test Statistic 9.6 Anderson-Darling 5% Critical Value 0.773 Anderson-Darling 5% Critical Value 0.773 Anderson-Darling 5% Critical Value 0.773 Anderson-Darling 5% Critical Value 0.731 Anderson-Darling 5% Critical Value 0.731 Anderson-Darling 5% Critical Value 0.131 Anderson-Darling 5% Critical Value 0.131 Assuming Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 1.2 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 2.0 95% Approximate Gamma UCL 0.803 95% Adjusted Gamma UCL 0.809 Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 1.2	Gamma Distribution Test		Data Distribution	obsequence of the side to the side
nu star 115.1 Approximate Chi Square Value (.05) 91.31 Adjusted Level of Significance 0.045 Adjusted Chi Square Value 90.65 Adjusted Chi Square Value 90.65 Adjusted Chi Square Value 90.65 95% Standard Bootstrap UCL 0.8 Anderson-Darling Test Statistic 9.6 Anderson-Darling 5% Critical Value 0.773 95% Hall's Bootstrap UCL 0.8 Kolmogorov-Smirnov Test Statistic 0.344 95% Percentile Bootstrap UCL 0.8 Kolmogorov-Smirnov 5% Critical Value 0.131 95% BCA Bootstrap UCL 0.9 Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 1.2 97.5% Chebyshev(Mean, Sd) UCL 1.5 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 2.0 95% Adjusted Gamma UCL 0.803 Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 1.2	k star (bias corrected)	1.199	Data do not follow a Discernable Distribution (0.05)
Approximate Chi Square Value (.05) 91.31 Nonparametric Statistics Adjusted Level of Significance 0.045 95% CLT UCL 0.8 Adjusted Chi Square Value 90.65 95% Standard Bootstrap UCL 0.8 Anderson-Darling Test Statistic 9.6 95% Bootstrap-t UCL 1.0 Anderson-Darling 5% Critical Value 0.773 95% Hall's Bootstrap UCL 0.8 Kolmogorov-Smirnov Test Statistic 0.344 95% Percentile Bootstrap UCL 0.8 Kolmogorov-Smirnov 5% Critical Value 0.131 95% BCA Bootstrap UCL 0.9 Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 1.2 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 2.0 95% Approximate Gamma UCL 0.803 95% Adjusted Gamma UCL 0.809 Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 1.2	Theta Star	0.532		
Adjusted Level of Significance 0.045 95% CLT UCL 0.8 Adjusted Chi Square Value 90.65 95% Jackknife UCL 0.8 Adjusted Chi Square Value 90.65 95% Standard Bootstrap UCL 0.8 Anderson-Darling Test Statistic 9.6 95% Bootstrap+t UCL 1.0 Anderson-Darling 5% Critical Value 0.773 95% Hall's Bootstrap UCL 0.8 Kolmogorov-Smirnov Test Statistic 0.344 95% Percentile Bootstrap UCL 0.8 Kolmogorov-Smirnov 5% Critical Value 0.131 95% BCA Bootstrap UCL 0.9 Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 1.2 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 1.5 Assuming Gamma UCL 0.803 95% Adjusted Gamma UCL 0.809 Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 1.2	nu star	115.1		
Adjusted Chi Square Value 90.65 95% Jackknife UCL 0.8 Anderson-Darling Test Statistic 9.6 95% Standard Bootstrap UCL 1.0 Anderson-Darling 5% Critical Value 0.773 95% Hall's Bootstrap UCL 0.8 Kolmogorov-Smirnov Test Statistic 0.344 95% Percentile Bootstrap UCL 0.8 Kolmogorov-Smirnov 5% Critical Value 0.131 95% BCA Bootstrap UCL 0.9 Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 1.2 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 2.0 95% Approximate Gamma UCL 0.803 95% Adjusted Gamma UCL 0.809 Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 1.2	Approximate Chi Square Value (.05)	91.31	Nonparametric Statistics	
Anderson-Darling Test Statistic 9.6 95% Bootstrap UCL 1.0 Anderson-Darling 5% Critical Value 0.773 95% Hall's Bootstrap UCL 0.8 Kolmogorov-Smirnov Test Statistic 0.344 95% Percentile Bootstrap UCL 0.8 Kolmogorov-Smirnov 5% Critical Value 0.131 95% BCA Bootstrap UCL 0.9 Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 1.2 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 2.0 95% Approximate Gamma UCL 0.803 95% Adjusted Gamma UCL 0.809 Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 1.2	Adjusted Level of Significance	0.045	95% CLT UCL	0.87
Anderson-Darling Test Statistic 9.6 95% Bootstrap-t UCL 1.0 Anderson-Darling 5% Critical Value 0.773 95% Hall's Bootstrap UCL 0.8 Kolmogorov-Smirnov Test Statistic 0.344 95% Percentile Bootstrap UCL 0.8 Kolmogorov-Smirnov 5% Critical Value 0.131 95% BCA Bootstrap UCL 0.9 Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 1.2 97.5% Chebyshev(Mean, Sd) UCL 1.5 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 2.0 95% Approximate Gamma UCL 0.803 95% Adjusted Gamma UCL 0.809 Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 1.2	Adjusted Chi Square Value	90,65	95% Jackknife UCL	0.87
Anderson-Darling 5% Critical Value 0.773 95% Hall's Bootstrap UCL 0.8 Kolmogorov-Smirnov Test Statistic 0.344 95% Percentile Bootstrap UCL 0.8 Kolmogorov-Smirnov 5% Critical Value 0.131 95% BCA Bootstrap UCL 0.9 Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 1.2 97.5% Chebyshev(Mean, Sd) UCL 1.5 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 2.0 95% Approximate Gamma UCL 0.803 95% Adjusted Gamma UCL 0.809 Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 1.2		marine and an barrely control	95% Standard Bootstrap UCL	0.87
Kolmogorov-Smirnov Test Statistic 0.344 95% Percentile Bootstrap UCL 0.8 Kolmogorov-Smirnov 5% Critical Value 0.131 95% BCA Bootstrap UCL 0.9 Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 1.2 97.5% Chebyshev(Mean, Sd) UCL 1.5 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 2.0 95% Approximate Gamma UCL 0.803 95% Adjusted Gamma UCL 0.809 Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 1.2	Anderson-Darling Test Statistic	9.6	95% Bootstrap-t UCL	1.09
Kolmogorov-Smirnov 5% Critical Value 0.131 95% BCA Bootstrap UCL 0.9 Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 1.2 97.5% Chebyshev(Mean, Sd) UCL 1.5 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 2.0 95% Approximate Gamma UCL 0.803 95% Adjusted Gamma UCL 0.809 Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 1.2	Anderson-Darling 5% Critical Value	0.773	95% Hall's Bootstrap UCL	0.82
Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 1.2 97.5% Chebyshev(Mean, Sd) UCL 1.5 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 2.0 95% Approximate Gamma UCL 0.803 95% Adjusted Gamma UCL 0.809 Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 1.2	Kolmogorov-Smirnov Test Statistic	0.344	95% Percentile Bootstrap UCL	0.87
97.5% Chebyshev(Mean, Sd) UCL 1.5 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 2.0 95% Approximate Gamma UCL 0.803 95% Adjusted Gamma UCL 0.809 Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 1.2	Kolmogorov-Smirnov 5% Critical Value	0.131	95% BCA Bootstrap UCL	0.95
Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 2.0 95% Approximate Gamma UCL 0.803 95% Adjusted Gamma UCL 0.809 Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 1.2	Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	1.26
95% Approximate Gamma UCL 0.803 95% Adjusted Gamma UCL 0.809 Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 1.2			97.5% Chebyshev(Mean, Sd) UCL	1.53
95% Adjusted Gamma UCL 0.809 Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 1.2	_		99% Chebyshev(Mean, Sd) UCL	2.06
Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 1.2		0.803		
	95% Adjusted Gamma UCL	0.809		
	Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	1.26
sult or 1/2 SDL (titanium)				
	ult or 1/2 SDL (titanium)	General	Obs. M. o. M.	

Raw Statistics		Log-transformed Statistics	<u>o republică din în î</u>
Minimum	8.15	Minimum of Log Data	2.09
Maximum	68.7	Maximum of Log Data	4.23
Mean	29.14	Mean of log Data	3.26
Median	28	SD of log Data	0.46
SD	13.88		
Coefficient of Variation	0.476		
Skewness	1.065		-11-18-7-1-11-1-1-1-1-1-1-1-1-1-1-1-1-1-
F	Relevant UC	CL Statistics	nt militari, sar squal digild s constant spik
Normal Distribution Test		Lognormal Distribution Test	California (California California
Shapiro Wilk Test Statistic	0.909	Shapiro Wilk Test Statistic	0.97
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.94
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution	<u></u>	Assuming Lognormal Distribution	· · · · · · · · · · · · · · · · · · ·
95% Student's-t UCL	32.5	95% H-UCL	33.16
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	38.06
95% Adjusted-CLT UCL	32.77	97.5% Chebyshev (MVUE) UCL	41.92
95% Modified-t UCL	32.55	99% Chebyshev (MVUE) UCL	49.49
Gamma Distribution Test		Data Distribution	alah meradi sadi samananya sa
k star (bias corrected)	4.618	Data appear Gamma Distributed at 5% Significance L	evel
Theta Star	6.31		
nu star	443.3		
Approximate Chi Square Value (.05)	395.5	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	32.44
Adjusted Chi Square Value	394.1	95% Jackknife UCL	32.5
		95% Standard Bootstrap UCL	32.46
Anderson-Darling Test Statistic	0.49	95% Bootstrap-t UCL	32.95
Anderson-Darling 5% Critical Value	0.753	95% Hall's Bootstrap UCL	32.98
Kolmogorov-Smirnov Test Statistic	0.109	95% Percentile Bootstrap UCL	32.54
Kolmogorov-Smirnov 5% Critical Value	0.128	95% BCA Bootstrap UCL	32.94
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	37.87
		97.5% Chebyshev(Mean, Sd) UCL	41.65
Assuming Gamma Distribution	-	99% Chebyshev(Mean, Sd) UCL	49.08
95% Approximate Gamma UCL	32.66		
95% Adjusted Gamma UCL	32.78		
Potential UCL to Use		Use 95% Approximate Gamma UCL	32.66
suming Gamma Distribution 95% Approximate Gamma UCL 95% Adjusted Gamma UCL	32.66	97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL	37.87 41.65 49.08 32.66
	General S	Statistics	141-141-141-141-141-141-141-141-141-141
Number of Valid Samples	48	Number of Unique Samples	44
Raw Statistics		Log-transformed Statistics	Marian Indonésia da Para da Pa
Minimum	2.9700E-4	Minimum of Log Data	-8.122
Maximum	0.0064	Maximum of Log Data	-5.051
1			
Mean	6.5492E-4	Mean of log Data	-7.638

জন্মৰ চন্দ্ৰ ক্ৰিক্ত মান্ত্ৰক্ৰিক (১৯১৮) কৰা কৰা কৰা কৰা কৰা কৰা কৰা কৰা কৰা কৰা	Francisco es está a California de 1		
SD	9.3955E-4		
Coefficient of Variation	1.435		
Skewness	5.23		
	<u> </u>		
	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.385	Shapiro Wilk Test Statistic	0.6
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.94
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	· · · · · · · · · · · · · · · · · · ·
Assuming Normal Distribution		Assuming Lognormal Distribution	······································
95% Student's-t UCL	8 8247F-4	95% H-UCL	6.9234
95% UCLs (Adjusted for Skewness)	0.021721	95% Chebyshev (MVUE) UCL	
95% Adjusted-CLT UCL	9.8737E-4	97.5% Chebyshev (MVUE) UCL	
95% Modified-t UCL	1	99% Chebyshev (MVUE) UCL	0.0
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.68	Data do not follow a Discernable Distribution (0.0)5)
Theta Star			
nu star	161.2		
Approximate Chi Square Value (.05)	132.9	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL 95% Jackknife UCL	
Adjusted Chi Square Value	132.1	1	
Anderson-Darling Test Statistic	7.505	95% Standard Bootstrap UCL 95% Bootstrap-t UCL	0.0
Anderson-Darling 1est Statistic Anderson-Darling 5% Critical Value	0.764	95% Hall's Bootstrap UCL	0.0
Kolmogorov-Smirnov Test Statistic	0.764	95% Percentile Bootstrap UCL	
Kolmogorov-Smirnov 5% Critical Value	0.27	95% BCA Bootstrap UCL	0.0
Data not Gamma Distributed at 5% Significance L	1	95% Chebyshev(Mean, Sd) UCL	0.0
Dua not dunina Distributed at 0% Organicanos E	3701	97.5% Chebyshev(Mean, Sd) UCL	0.0
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0
95% Approximate Gamma UCL	7 9468F-4	- The state of the	
95% Adjusted Gamma UCL			
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.0
		o Phair an agus Lucatus an agus Lucatus agus Agus Agus Agus Agus Agus Agus Agus A	
ult or 1/2 SDL (vanadium)			and the real section of the distances of
	General S	statistics	
Number of Valid Samples	48	Number of Unique Samples	39
Raw Statistics		Log-transformed Statistics	Left Left to Living a State Common for A
Minimum	9.02	Minimum of Log Data	2.1
Maximum	32	Maximum of Log Data	3.4
Mean	21.65	Mean of log Data	3.0
Median	21.75	SD of log Data	0.2
SD	4.554		
Coefficient of Variation	0.21		
Skewness	-0.279		

Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.985	Shapiro Wilk Test Statistic	0.933
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.947
Data appear Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	22.75	95% H-UCL	23.03
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	24.91
95% Adjusted-CLT UCL	ed-CLT UCL 22.7 97.5% Chebyshev (MVUE) UCL 26		26.31
95% Modified-t UCL	22.74	99% Chebyshev (MVUE) UCL	29.05
Gamma Distribution Test		Data Distribution	***************************************
k star (bias corrected)	19.24	Data appear Normal at 5% Significance Level	***************************************
Theta Star	1.125		
nu star	1847		\
Approximate Chi Square Value (.05)	1748	Nonparametric Statistics	· · · · · · · · · · · · · · · · · · ·
Adjusted Level of Significance			22.73
Adjusted Chi Square Value	1745	95% Jackknife UCL	22.75
		95% Standard Bootstrap UCL	22.71
Anderson-Darling Test Statistic	0.627	95% Bootstrap-t UCL	22.7
Anderson-Darling 5% Critical Value	0.748	95% Hall's Bootstrap UCL	22.7
Kolmogorov-Smirnov Test Statistic	0.102	95% Percentile Bootstrap UCL	22.73
Kolmogorov-Smirnov 5% Critical Value	0.128	95% BCA Bootstrap UCL	22.76
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	24.51
		97.5% Chebyshev(Mean, Sd) UCL	25.75
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	28.19
95% Approximate Gamma UCL	22.87		**************************************
95% Adjusted Gamma UCL	22.91		
Potential UCL to Use		Use 95% Student's-t UCL	22.75
sult or 1/2 SDL (zinc)	annus musuupanpanponas summenne		olden inn orden den de la constitución de la consti
	General Stati	stics	***************************************
Night of the Control	53		
Number of Valid Samples	33	Number of Unique Samples	53
			33
Raw Statistics		Log-transformed Statistics	
Raw Statistics Minimum	31.5	Log-transformed Statistics Minimum of Log Data	3.45
Raw Statistics Minimum Maximum	31.5 903	Log-transformed Statistics Minimum of Log Data Maximum of Log Data	3.45 6.806
Raw Statistics Minimum Maximum Mean	31.5 903 139.1	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	3.45 6.806 4.558
Raw Statistics Minimum Maximum Mean Median	31.5 903 139.1 84.3	Log-transformed Statistics Minimum of Log Data Maximum of Log Data	3.45 6.806 4.558
Raw Statistics Minimum Maximum Mean Median SD	31.5 903 139.1 84.3 160.9	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	3.45 6.806 4.558
Raw Statistics Minimum Maximum Mean Median	31.5 903 139.1 84.3	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	3.45 6.806 4.558
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	31.5 903 139.1 84.3 160.9 1.157 2.989	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	3.45 6.806 4.558
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	31.5 903 139.1 84.3 160.9	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	3.45 6.806 4.558
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	31.5 903 139.1 84.3 160.9 1.157 2.989	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	176.1	95% H-UCL	16
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	19
95% Adjusted-CLT UCL	185.2	97.5% Chebyshev (MVUE) UCL	22
95% Modified-t UCL	177.6	99% Chebyshev (MVUE) UCL	28
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.4	Data do not follow a Discernable Distribution (0.0)	5)
Theta Star	99.32		
nu star	148.4		
Approximate Chi Square Value (.05)	121.3	Nonparametric Statistics	
Adjusted Level of Significance	0.0455	95% CLT UCL	17
Adjusted Chi Square Value	120.6	95% Jackknife UCL	17
		95% Standard Bootstrap UCL	17
Anderson-Darling Test Statistic	2.607	95% Bootstrap-t UCL	19
Anderson-Darling 5% Critical Value	0.768	95% Hall's Bootstrap UCL	19
Kolmogorov-Smirnov Test Statistic	0.185	95% Percentile Bootstrap UCL	17
Kolmogorov-Smirnov 5% Critical Value	0.124	95% BCA Bootstrap UCL	18
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	23
		97.5% Chebyshev(Mean, Sd) UCL	27
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	35
95% Approximate Gamma UCL	170.2		
95% Adjusted Gamma UCL	171.2		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	23

.

APPENDIX A-9

POND SEDIMENT

User Selected Options	General UCL Statistics	tor Full Data	Sets			
From File		\eco\draft for F	PRP review\Appendices\Data\Pond sediment data.wst			
Full Precision	OFF					
Confidence Coefficient	95%					
Number of Bootstrap Operations	2000					
lesult or 1/2 SDL (2,4,6-trichloro	phenol)			4 (122		
		General St	atistics			
N	umber of Valid Samples	8	Number of Unique Samples	7		
Raw S	tatistics		Log-transformed Statistics	***************************************		
ani pangangan ng pangangangan ng pangangangan ng pangangan pangangan ng pangangan ng pangangan ng pangangan ng	Minimum	0.0125	Minimum of Log Data	-4.382		
Entering the Control of the Control	Maximum	0.0429	Maximum of Log Data	-3.149		
	Mean	0.0175	Mean of log Data	-4.145		
	Median	0.0135	SD of log Data	0.414		
annon the contract of the state	SD	0.0104				
nna uurin Maittii Maatti oo oo oo oo oo oo oo oo oo oo oo oo oo	Coefficient of Variation	0.595		h dan dan dan dan dan dan dan dan dan dan		
	Skewness	2.728				
	F	Relevant UCL	Statistics	leaktion of Hillians he can be trans		
Normal Dis	ribution Test		Lognormal Distribution Test	***************************************		
Sh	apiro Wilk Test Statistic	0.534	Shapiro Wilk Test Statistic	0.62		
Sh	apiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.818		
Data not Normal at 5	% Significance Level	To provide del del mario	Data not Lognormal at 5% Significance Level			
Assuming Nor	mal Distribution		Assuming Lognormal Distribution	rae i decapra de adria da des dapados de ligo es		
—————————————————————————————————————	95% Student's-t UCL	0.0244	95% H-UCL	0.024		
95% UCLs (Adju	sted for Skewness)		95% Chebyshev (MVUE) UCL	0.028		
	95% Adjusted-CLT UCL	0.0273	97.5% Chebyshev (MVUE) UCL	0.032		
	95% Modified-t UCL	0.025	99% Chebyshev (MVUE) UCL	0.042		
Gamma Dis	tribution Test		Data Distribution	D. I. W. (44)		
	k star (bias corrected)	3.43	Data do not follow a Discernable Distribution (0.05)		
	Theta Star	0.0050				
ne pentrikkan aktivation a gibi aktivatigila aktivatidi kakila aktivati e e e e e e e e e e e e e e e e e e e	nu star	54.87				
Approximate	Chi Square Value (.05)	38.85	Nonparametric Statistics	*************************		
Adjust	ed Level of Significance	0.0195	95% CLT UCL	0.023		
Adj	usted Chi Square Value	35.47	95% Jackknife UCL	0.024		
			95% Standard Bootstrap UCL	0.023		
Anderse	on-Darling Test Statistic	1.566	95% Bootstrap-t UCL	0.064		
	arling 5% Critical Value	0.719	95% Hall's Bootstrap UCL	0.051		
***************************************	v-Smirnov Test Statistic	0.368	95% Percentile Bootstrap UCL	0.024		
***************************************	nirnov 5% Critical Value	0.295	95% BCA Bootstrap UCL	0.025		
Data not Gamma Distribute	ed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.033		
			97.5% Chebyshev(Mean, Sd) UCL	0.040		
	ma Distribution		99% Chebyshev(Mean, Sd) UCL	0.054		
	proximate Gamma UCL	0.0246				
95%	Adjusted Gamma UCL	0.027				
		3				

Potential UCL to Use		Use 95% Student's-t UCL	0.02
		or 95% Modified-t UCL	0.02
ılt or 1/2 SDL (4,4'-ddd)			- 1 1 1 1 1 1 1 1
III OF 172 3DE (4,4-400)			
Number of Valid Samples	General Stat	tistics Number of Unique Samples	7
Number of Valid Samples	0	Number of Offique Samples	,
Raw Statistics		Log-transformed Statistics	
Minimum	2.2750E-4	Minimum of Log Data	-8.388
Maximum	0.013	Maximum of Log Data	-4.343
Mean	0.0069	Mean of log Data	-5.828
Median	0.01	SD of log Data	1.83
SD	0.0055	O I log Date	
Coefficient of Variation	0.794		
Skewness	-0.527		
	Relevant UCL S	Statistics	***************************************
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.772	Shapiro Wilk Test Statistic	0.72
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.81
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0107	95% H-UCL	0.87
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.04
95% Adjusted-CLT UCL	0.0097	97.5% Chebyshev (MVUE) UCL	0.05
95% Modified-t UCL	0.0106	99% Chebyshev (MVUE) UCL	0.07
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.522	Data do not follow a Discernable Distribution (0.05)
Theta Star	0.0133		
nu star	8.359		
Approximate Chi Square Value (.05)	2.945	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	95% CLT UCL	0.01
Adjusted Chi Square Value	2.195	95% Jackknife UCL	0.0
		95% Standard Bootstrap UCL	0.00
Anderson-Darling Test Statistic	1.169	95% Bootstrap-t UCL	0.0
Anderson-Darling 5% Critical Value	0.748	95% Hall's Bootstrap UCL	0.00
Kolmogorov-Smirnov Test Statistic	0.388	95% Percentile Bootstrap UCL	0.00
Kolmogorov-Smirnov 5% Critical Value	0.305	95% BCA Bootstrap UCL	0.00
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.01
		97.5% Chebyshev(Mean, Sd) UCL	0.01
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.02
95% Approximate Gamma UCL	0.0197		
95% Adjusted Gamma UCL	0.0265		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.02
			U.U2

	General S	tafictice	
Number of Valid Samples	general S	Number of Unique Samples	6
Raw Statistics		Log-transformed Statistics	
Minimum	0.0011	Minimum of Log Data	-6.803
Maximum	0.007	Maximum of Log Data	-4.962
Mean	0.0041	- Mean of log Data	-5.717
Median	0.0055	SD of log Data	0.81
SD	0.0024		
Coefficient of Variation	0.588		
Skewness	-0.488		
F	Relevant UC	L Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.798	Shapiro Wilk Test Statistic	0.754
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.818
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Accurring Normal Distribution		Assuming Lognormal Distribution	
Assuming Normal Distribution 95% Student's-t UCL	0.0058	95% H-UCL	0.011
95% UCLs (Adjusted for Skewness)	0.0000	95% Chebyshev (MVUE) UCL	0.009
95% Adjusted-CLT UCL	0.0054	97.5% Chebyshev (MVUE) UCL	0.003
95% Modified-t UCL	0.0057	99% Chebyshev (MVUE) UCL	0.017
			Mana (V HTTP://Parisone
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.507	Data do not follow a Discernable Distribution (0.05)
Theta Star	0.0027		
nu star	24.12		
Approximate Chi Square Value (.05)	13.94	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	95% CLT UCL	0.005
Adjusted Chi Square Value	12.03	95% Jackknife UCL	0.005
		95% Standard Bootstrap UCL	0.005
Anderson-Darling Test Statistic	1.03	95% Bootstrap-t UCL	0.005
Anderson-Darling 5% Critical Value	0.723	95% Hall's Bootstrap UCL	0.005
Kolmogorov-Smirnov Test Statistic	0.37	95% Percentile Bootstrap UCL	0.005
Kolmogorov-Smirnov 5% Critical Value	0.297	95% BCA Bootstrap UCL	0.005
Data not Gamma Distributed at 5% Significance Le	vei	95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL	0.007
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.009
95% Approximate Gamma UCL	0.0072	33 % Chebyshev(Mean, 64) OCL	0.012
95% Adjusted Gamma UCL	0.0072		
Potential UCL to Use	on general and	Use 95% Chebyshev (Mean, Sd) UCL	0.007
Recommended U	ICL exceeds	the maximum observation	a. w. n
	North Control of the		
esult or 1/2 SDL (acetone)			
	General S	tatistics	

-8.021 -2.528 -4.85 2.12
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	Francisco Company		
Median	11550	SD of log Data	0.293
SD	<u></u>	JO UI ING Data	0.200
Coefficient of Variation	}		
Skewness	0.233		
Orewiess	0.211		
	Relevant U	CL Statistics	**************************************
Normal Distribution Test		Lognormal Distribution Test	· • · · · · · · · · · · · · · · · · · ·
Shapiro Wilk Test Statistic	0.892	Shapiro Wilk Test Statistic	0.89
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.818
Data appear Normal at 5% Significance Level	<u> </u>	Data appear Lognormal at 5% Significance Leve)
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	14013	95% H-UCL	14847
95% UCLs (Adjusted for Skewness)	**************************************	95% Chebyshev (MVUE) UCL	17068
95% Adjusted-CLT UCL	13810	97.5% Chebyshev (MVUE) UCL	19369
95% Modified-t UCL	14028	99% Chebyshev (MVUE) UCL	23889
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	8.618	Data appear Normal at 5% Significance Level	
Theta Star	1363	Data appear normal at 0.0 digital cance Level	
nu stari	137.9		
Approximate Chi Square Value (.05)	111.8	Nonparametric Statistics	
Adjusted Level of Significance	0.0195		13714
Adjusted Level of Significance Adjusted Chi Square Value	105.8	95% CET OCL 95% Jackknife UCL	14013
Adjusted Citi Square Value	105.6	[
		95% Standard Bootstrap UCL	13557
Anderson-Darling Test Statistic	0.421	95% Bootstrap-t UCL	14142
Anderson-Darling 5% Critical Value	0.715	95% Hall's Bootstrap UCL	13477
Kolmogorov-Smirnov Test Statistic	0.224	95% Percentile Bootstrap UCL	13574
Kolmogorov-Smirnov 5% Critical Value	0.294	95% BCA Bootstrap UCL	13561
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	16959
		97.5% Chebyshev(Mean, Sd) UCL	19214
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	23644
95% Approximate Gamma UCL	*		
95% Adjusted Gamma UCL	15310		
Detected UOL to U.S.		Lies OFW On Joseph AUGU	14013
Potential UCL to Use		Use 95% Student's-t UCL	14013
	w.w.m.m.m.m.m.m.m.m.m.m.m.m.m.m.m.m.m.m		· · · · · · · · · · · · · · · · · · ·
Result or 1/2 SDL (antimony)			
No. 10 CH. 10 CH.		Statistics	
Number of Valid Samples	8	Number of Unique Samples	7
Raw Statistics	······	Log-transformed Statistics	······································
Minimum	0.33	Minimum of Log Data	-1.109
Maximum	1.85	Maximum of Log Data	0.615
Mean	0.795	Mean of log Data	-0.487
Median	0.4	SD of log Data	0.75
SD	0.618	J of 199 Data	
Coefficient of Variation	0.778		e.v.
Skewness	0.778		
Skewness	U.00/		

	Relevant U	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.757	Shapiro Wilk Test Statistic	0.76
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.81
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	11771W16417FF-164764114156
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	1.209	95% H-UCL	1.84
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.7
95% Adjusted-CLT UCL	1.228	97.5% Chebyshev (MVUE) UCL	2.09
95% Modified-t UCL	1.221	99% Chebyshev (MVUE) UCL	2.87
Gamma Distribution Test		Data Distribution	11. 11.11.11.14.14.14.14.14.14.14.14.14.14.1
k star (bias corrected)	1.392	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.571		
nu star	22,27	And the Manufacture of the Anti-Anti-Anti-Anti-Anti-Anti-Anti-Anti-	www
Approximate Chi Square Value (.05)	12.54	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	•	1.15
Adjusted Chi Square Value	10.74	95% Jackknife UCL	1.20
	10.7-1	95% Standard Bootstrap UCL	1.12
Anderson-Darling Test Statistic	1.02	95% Bootstrap-t UCL	1.34
Anderson-Darling 5% Critical Value	0.724	95% Hall's Bootstrap UCL	1.02
Kolmogorov-Smirnov Test Statistic	0.724	95% Percentile Bootstrap UCL	1.15
Kolmogorov-Smirnov 7est Statistic	0.33	95% BCA Bootstrap UCL	1.17
		95% Chebyshev(Mean, Sd) UCL	1.74
Data not Gamma Distributed at 5% Significance Le	evei		
		97.5% Chebyshev(Mean, Sd) UCL	2.16
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	2.97
95% Approximate Gamma UCL	1.412		
95% Adjusted Gamma UCL	1.648		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	1.74
sult or 1/2 SDL (arsenic)			
Number of Valid Samples	General 8	Statistics Number of Unique Samples	7
		<u>.</u>	
Raw Statistics	~	Log-transformed Statistics	
Minimum	0.14	Minimum of Log Data	-1.966
Maximum	5.01	Maximum of Log Data	1.61
Mean	1.735	Mean of log Data	-0.633
Median	0.168	SD of log Data	1.74
SD	2.233		
Coefficient of Variation	1.287		
Skewness	0.794		
	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.706	Shapiro Wilk Test Statistic	0.69
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.81
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
95% Student's-t UCL	3.231	95% H-UCL	92.47
95% UCLs (Adjusted for Skewness)	0.20	95% Chebyshev (MVUE) UCL	6.27
95% Adjusted-CLT UCL	3.27	97.5% Chebyshev (MVUE) UCL	8.24
95% Modified-t UCL	3.268	99% Chebyshev (MVUE) UCL	12.12
Gamma Distribution Test	30000 T. T. T. J. T.	Data Distribution	********************************
k star (bias corrected)	0.415	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	4.176		
nu star	6.648		
Approximate Chi Square Value (.05)	1.979	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	95% CLT UCL	3.03
Adjusted Chi Square Value	1.401	95% Jackknife UCL	3.23
		95% Standard Bootstrap UCL	2.91
Anderson-Darling Test Statistic	1.258	95% Bootstrap-t UCL	4.02
Anderson-Darling 5% Critical Value	0.76	95% Hall's Bootstrap UCL	2.69
Kolmogorov-Smirnov Test Statistic	0.385	95% Percentile Bootstrap UCL	2.91
Kolmogorov-Smirnov 5% Critical Value	0.308	95% BCA Bootstrap UCL	3.08
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	5.17
		97.5% Chebyshev(Mean, Sd) UCL	6.66
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	9.59
95% Approximate Gamma UCL	5.827		
95% Adjusted Gamma UCL	8.231		
Potential UCL to Use	1	Use 99% Chebyshev (Mean, Sd) UCL	9.59
		s the maximum observation	
lt or 1/2 SDL (barium)			advanced abbrevia
	General S		
Number of Valid Samples	8	Number of Unique Samples	7
Raw Statistics		Log-transformed Statistics	
naw Statistics		Minimum of Log Data	
Minimum	108	_	4.68
	108 417	Maximum of Log Data	
Minimum		Maximum of Log Data Mean of log Data	6.03
Minimum Maximum	417		6.03 5.14
Minimum Maximum Mean	417 198.6	Mean of log Data	6.03 5.14
Minimum Maximum Mean Median	417 198.6 128.5	Mean of log Data	6.03 5.14
Minimum Maximum Mean Median SD	417 198.6 128.5 119.4	Mean of log Data	6.03 5.14
Minimum Maximum Mean Median SD Coefficient of Variation Skewness	417 198.6 128.5 119.4 0.601	Mean of log Data SD of log Data	6.03 5.14
Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test	417 198.6 128.5 119.4 0.601 1.058	Mean of log Data SD of log Data SL Statistics Lognormal Distribution Test	4.68 6.03 5.14 0.55
Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic	417 198.6 128.5 119.4 0.601 1.058	Mean of log Data SD of log Data SL Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic	6.03 5.14
Minimum Maximum Mean Mean Median SD Coefficient of Variation Skewness	417 198.6 128.5 119.4 0.601 1.058	Mean of log Data SD of log Data SL Statistics Lognormal Distribution Test	6.03 5.14 0.55
Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic	417 198.6 128.5 119.4 0.601 1.058 Relevant UC	Mean of log Data SD of log Data SL Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic	6.03 5.14 0.55
Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	417 198.6 128.5 119.4 0.601 1.058 Relevant UC	Mean of log Data SD of log Data SD of log Data CL Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	6.03 5.14 0.55
Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	417 198.6 128.5 119.4 0.601 1.058 Relevant UC	Mean of log Data SD of log Data SD of log Data CL Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	6.03 5.14 0.55

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95% Adjusted-CLT UCL	284.9	97.5% Chebyshev (MVUE) UCL	439.5
95% Modified-t UCL	281.2	99% Chebyshev (MVUE) UCL	583.6
Gamma Distribution Test		Data Distribution	
k star (bias corrected) 2.374		Data do not follow a Discernable Distribution (0.0)	E\
Theta Star	83.68	Data do not follow a Discernable Distribution (0.0	
nu star	37.98		
Approximate Chi Square Value (.05)	24.87	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	95% CLT UCL	268
Adjusted Chi Square Value	22.22	95% Jackknife UCL	278.6
		95% Standard Bootstrap UCL	262.5
Anderson-Darling Test Statistic	0.846	95% Bootstrap-t UCL	326.6
Anderson-Darling 5% Critical Value	0.72	95% Hall's Bootstrap UCL	250.9
Kolmogorov-Smirnov Test Statistic	0.3	95% Percentile Bootstrap UCL	263.0
Kolmogorov-Smirnov 5% Critical Value	0.296	95% BCA Bootstrap UCL	275.
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	382.6
		97.5% Chebyshev(Mean, Sd) UCL	462.2
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	618.5
95% Approximate Gamma UCL	303.4		
95% Adjusted Gamma UCL	339.5		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	382.6
	General Stati		
it or 1/2 SDL (benzo(b)fluoranthene) Number of Valid Samples	General Stati	istics Number of Unique Samples	8
	***************************************	Number of Unique Samples	8
Number of Valid Samples	***************************************		
Number of Valid Samples Raw Statistics	8	Number of Unique Samples Log-transformed Statistics	-5.29
Number of Valid Samples Raw Statistics Minimum	0.005	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	-5.29 -2.24
Number of Valid Samples Raw Statistics Minimum Maximum	0.005 0.106	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-5.29 -2.24 -3.56
Number of Valid Samples Raw Statistics Minimum Maximum Mean	0.005 0.106 0.0477	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.29 -2.24 -3.56
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	0.005 0.106 0.0477 0.0338	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.2 -2.2 -3.5
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	0.005 0.106 0.0477 0.0338 0.0385	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.29 -2.24 -3.50
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.005 0.106 0.0477 0.0338 0.0385 0.808	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-5.29 -2.24 -3.50
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.005 0.106 0.0477 0.0338 0.0385 0.808 0.434	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-5.29 -2.24 -3.50
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.005 0.106 0.0477 0.0338 0.0385 0.808 0.434	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-5.29 -2.24 -3.50 1.7
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.005 0.106 0.0477 0.0338 0.0385 0.808 0.434	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test	-5.29 -2.24 -3.50 1.1
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Finance of Variation Test Shapiro Wilk Test Statistic	0.005 0.106 0.0477 0.0338 0.0385 0.808 0.434	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic	-5.29 -2.24 -3.50 1.1
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.005 0.106 0.0477 0.0338 0.0385 0.808 0.434	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	-5.29 -2.24 -3.50 1.1
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level	0.005 0.106 0.0477 0.0338 0.0385 0.808 0.434	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Leve	-5.29 -2.2 ² -3.50 1.1
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Final Statistic Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution	0.005 0.106 0.0477 0.0338 0.0385 0.808 0.434 Relevant UCL S	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data	-5.29 -2.24 -3.50 1.1
Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	0.005 0.106 0.0477 0.0338 0.0385 0.808 0.434 Relevant UCL S	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Leve Assuming Lognormal Distribution 95% H-UCL	-5.29 -2.22 -3.56 1.1.1 0.8 0.8
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	8 0.005 0.106 0.0477 0.0338 0.0385 0.808 0.434 Relevant UCL S 0.886 0.818	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Leve Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-5.29 -2.24 -3.50 1.1 0.8 0.8
Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	8 0.005 0.106 0.0477 0.0338 0.0385 0.808 0.434 Relevant UCL S 0.886 0.818 0.0735	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Leve Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	-5.29 -2.22 -3.50 1.1 0.8 0.8 1

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Theta Star	0.0559		70-181-11-7 <u>-</u> 201-181-11-7-1
nu star	13.65		P
Approximate Chi Square Value (.05)	6.332	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	95% CLT UCL	0.070
Adjusted Chi Square Value	5.127	95% Jackknife UCL	0.073
Augusted offi oquate value	0.127	95% Standard Bootstrap UCL	0.0679
Anderson-Darling Test Statistic	0.442	95% Bootstrap-t UCL	0.075
Anderson-Darling 5% Critical Value	0.732	95% Hall's Bootstrap UCL	0.067
Kolmogorov-Smirnov Test Statistic	0.209	95% Percentile Bootstrap UCL	0.069
Kolmogorov-Smirnov 5% Critical Value	0.3	95% BCA Bootstrap UCL	0.069
Data appear Gamma Distributed at 5% Significance		95% Chebyshev(Mean, Sd) UCL	0.107
1		97.5% Chebyshev(Mean, Sd) UCL	0.133
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.183
95% Approximate Gamma UCL	0.103		
95% Adjusted Gamma UCL	0.127		
Potential UCL to Use		Use 95% Student's-t UCL	0.073
Result or 1/2 SDL (benzo(g,h,i)perylene)	· Parendalla de la companione de la companione de la companione de la companione de la companione de la compa		
	General Sta		
Number of Valid Samples	8	Number of Unique Samples	6
Raw Statistics		Log-transformed Statistics	
Minimum	0.0075	Minimum of Log Data	-4.893
Maximum	0.135	Maximum of Log Data	-2.002
Mean	0.024	Mean of log Data	-4.466
Median	0.0079	SD of log Data	1
SD	0.0449		
Coefficient of Variation	1.871		
Skewness	2.826		
R	elevant UCL	Statistics	and the state of t
Normal Distribution Test	***************************************	Lognormal Distribution Test	***************************************
Shapiro Wilk Test Statistic	0.433	Shapiro Wilk Test Statistic	0.495
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.818
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.054	95% H-UCL	0.0711
95% UCLs (Adjusted for Skewness)	U.UU T	95% Chebyshev (MVUE) UCL	0.0449
95% Adjusted-CLT UCL	0.067	97.5% Chebyshev (MVUE) UCL	0.0568
95% Modified-t UCL	0.0567	99% Chebyshev (MVUE) UCL	0.0802
	-1000/	· ·	J.JUUE
Gamma Distribution Test	***	Data Distribution	edite i de l'ilegani de primite i di in mode descri
k star (bias corrected)	0.587	Data do not follow a Discernable Distribution (0.05	i)
Theta Star	0.0408		er i Eddforgerende frança sagilita es frança nas par
nu star	9.393		
Approximate Chi Square Value (.05)	3.566	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	95% CLT UCL	0.0501
Adjusted Chi Square Value	2.719	95% Jackknife UCL	0.054

	San De Herri de de Rais		er ret el
		95% Standard Bootstrap UCL	0.04
Anderson-Darling Test Statistic	2.272	95% Bootstrap-t UCL	2.08
Anderson-Darling 5% Critical Value	0.743	95% Hall's Bootstrap UCL	0.88
Kolmogorov-Smirnov Test Statistic	0.49	95% Percentile Bootstrap UCL	0.05
Kolmogorov-Smirnov 5% Critical Value	0.303	95% BCA Bootstrap UCL	0.07
Data not Gamma Distributed at 5% Significance Le	ļ	95% Chebyshev(Mean, Sd) UCL	0.09
		97.5% Chebyshev(Mean, Sd) UCL	0.12
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.1
95% Approximate Gamma UCL	0.0632	oo // Oncoysho (Medil, Od) Col	
95% Adjusted Gamma UCL	0.0828	annonne menunganorina para manaka menungan kenturun dan panahan dan saman menadapat dan menungan berasar dan d	
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.18
	CL exceeds th	ne maximum observation	U. 1
t or 1/2 SDL (benzo(k)fluoranthene)			
Now have O'r list O was been	General Stat		
Number of Valid Samples	8	Number of Unique Samples	7
Raw Statistics		Log-transformed Statistics	
Minimum	0.0115	Minimum of Log Data	-4.46
Maximum	0.13	Maximum of Log Data	-2.04
Mean	0.0527	Mean of log Data	-3.53
Median	0.0138	SD of log Data	1.1
SD	0.0557		
Coefficient of Variation	1.058		***************************************
Skewness	0.678		
R	elevant UCL S	Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.695	Shapiro Wilk Test Statistic	0,7
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.8
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.09	95% H-UCL	0.3
	0.09		
95% UCLs (Adjusted for Skewness)	0.0001	95% Chebyshev (MVUE) UCL	0.1
95% Adjusted-CLT UCL	0.0901	97.5% Chebyshev (MVUE) UCL	0.1
95% Modified-t UCL	0.0908	99% Chebyshev (MVUE) UCL	0.2
Gamma Distribution Test		Data Distribution	***************************************
1 , 4:		Data do not follow a Discernable Distribution (0.05)
k star (bias corrected)	0.691		
K star (bias corrected) Theta Star	0.691 0.0762		
Theta Star nu star Approximate Chi Square Value (.05)	0.0762	Nonparametric Statistics	
Theta Star nu star	0.0762 11.06		0.0
Theta Star nu star Approximate Chi Square Value (.05)	0.0762 11.06 4.613	Nonparametric Statistics	
Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance	0.0762 11.06 4.613 0.0195	Nonparametric Statistics 95% CLT UCL	0.00 0.00 0.00
Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance	0.0762 11.06 4.613 0.0195	Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL	0.0
Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value	0.0762 11.06 4.613 0.0195 3.619	Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL	0.0

Kolmogorov-Smirnov 5% Critical Value	i .	95% BCA Bootstrap UCL	0.08
Data not Gamma Distributed at 5% Significance L	-evel	95% Chebyshev(Mean, Sd) UCL	0.13
		97.5% Chebyshev(Mean, Sd) UCL	0.17
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.24
95% Approximate Gamma UCL			
95% Adjusted Gamma UCL	0.161		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.24
Recommended	UCL exceed	s the maximum observation	
sult or 1/2 SDL (beryllium)			
	General	Statistics	
Number of Valid Samples	8	Number of Unique Samples	8
Raw Statistics		Log-transformed Statistics	
Minimum	0.58	Minimum of Log Data	-0.545
Maximum	1.13	Maximum of Log Data	0.12
Mean	0.834	Mean of log Data	-0.209
Median	0.865	SD of log Data	0.25
SD	0.206		
Coefficient of Variation	0.247		
Skewness	0.0408		
	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.926	Shapiro Wilk Test Statistic	0.91
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.81
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	<u> </u>
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.972	95% H-UCL	1.01
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.16
95% Adjusted-CLT UCL	0.954	97.5% Chebyshev (MVUE) UCL	1.30
95% Modified-t UCL	0.972	99% Chebyshev (MVUE) UCL	1.58
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	11.5	Data appear Normal at 5% Significance Level	
Theta Star			
nu star	183.9		
Approximate Chi Square Value (.05)	153.6	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	95% CLT UCL	0.9
Adjusted Chi Square Value	146.5	95% Jackknife UCL	0.97
, agassa on oqualo value		95% Standard Bootstrap UCL	0.94
Anderson-Darling Test Statistic	0.371	95% Bootstrap-t UCL	0.9
Anderson-Darling 76st Statistic	<u> </u>	95% Hall's Bootstrap UCL	0.9
Kolmogorov-Smirnov Test Statistic	1	95% Percentile Bootstrap UCL	0.9
_	<u> </u>	95% BCA Bootstrap UCL	0.9
Kolmogorou Emirnou Et/ Oritical Value		93% BLA BODISITAD UC.	ບ.ສ.
Kolmogorov-Smirnov 5% Critical Value			4 4 5
Kolmogorov-Smirnov 5% Critical Value Data appear Gamma Distributed at 5% Significance		95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL	1.18 1.28

95% Approximate Gamma UCL	0.999		
95% Adjusted Gamma UCL	1.047		
	nd en eta eta pubbia pikoningki penartiban nghigami		
Potential UCL to Use		Use 95% Student's-t UCL	0.97
sult or 1/2 SDL (beta-bhc)			-944 (***********************************
	General	Statistics	
Number of Valid Samples	8	Number of Unique Samples	7
Raw Statistics		Log-transformed Statistics	
Minimum	2.4400E-4	Minimum of Log Data	-8.318
Maximum	0.015	Maximum of Log Data	-4.2
Mean	0.0079	Mean of log Data	-5.72
Median	0.0115	SD of log Data	1.87
SD	0.0063		
Coefficient of Variation	0.799		
Skewness	-0.521		
F	Relevant UC	CL Statistics	ere - en land mand et een de franc afr
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.771	Shapiro Wilk Test Statistic	0.72
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.81
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0122	95% H-UCL	1.23
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.04
95% Adjusted-CLT UCL	0.0112		0.06
95% Modified-t UCL	0.0122	99% Chebyshev (MVUE) UCL	0.09
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.51	Data do not follow a Discernable Distribution (0.05)
Theta Star	0.0156		
nu star	8.162		~
Approximate Chi Square Value (.05)	2.829	Nonparametric Statistics	0.01
Adjusted Level of Significance Adjusted Chi Square Value	0.0195 2.098	95% CLT UCL 95% Jackknife UCL	0.01
Aujusieu Cili Squale Value	۷.050	95% Standard Bootstrap UCL	0.01
Anderson-Darling Test Statistic	1.185	95% Bootstrap UCL	0.01
Anderson-Darling 5% Critical Value	0.75	95% Hall's Bootstrap UCL	0.01
Kolmogorov-Smirnov Test Statistic	0.39	95% Percentile Bootstrap UCL	0.01
Kolmogorov-Smirnov 5% Critical Value	0.305	95% BCA Bootstrap UCL	0.01
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.01
		97.5% Chebyshev(Mean, Sd) UCL	0.02
Accuming Commo Distribution		99% Chebyshev(Mean, Sd) UCL	0.03
Assuming Gamma Distribution	0.000		
95% Approximate Gamma UCL	0.023	* · · · · · · · · · · · · · · · · · · ·	
_	0.023		

sult or 1/2 SDL (boron)			
	Conoral	Statistics	
Number of Valid Samples	8	Number of Unique Samples	8
	-		
Raw Statistics		Log-transformed Statistics	E 11
Minimum	4.26	Minimum of Log Data	1.44
Maximum	28.4	Maximum of Log Data	3.34
Mean	14.95	Mean of log Data	2.43
Median	12.4	SD of log Data	0.81
SD	10.5		
Coefficient of Variation	0.702		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Skewness	0.337		antauru paramaran araba
	Dolovent I I	CL Statistics	
Normal Distribution Test	Relevant O	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.837	Shapiro Wilk Test Statistic	0.852
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.81
Data appear Normal at 5% Significance Level	0.0.0	Data appear Lognormal at 5% Significance Level	
	41.00.00.00.00.00.00.00.00.00.00.00.00.00		
Assuming Normal Distribution		Assuming Lognormal Distribution	***************************************
95% Student's-t UCL	21.98	95% H-UCL	40.99
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	34.74
95% Adjusted-CLT UCL	21.53	97.5% Chebyshev (MVUE) UCL	43.18
95% Modified-t UCL	22.06	99% Chebyshev (MVUE) UCL	59.77
	Charles (charles of the later shall be set		
Gamma Distribution Test	annyan yan ana ana ang sanasi na an an sanasi na ana an	Data Distribution	
k star (bias corrected)	1.355	Data appear Normal at 5% Significance Level	
Theta Star	11.03		
nu star	21.69		***************************************
Approximate Chi Square Value (.05)	12.1	Nonparametric Statistics 95% CLT UCL	21.00
Adjusted Level of Significance Adjusted Chi Square Value	0.0195 10.34	95% CLT OCL 95% Jackknife UCL	21.06 21.98
Adjusted Citi Square Value	10.34	95% Standard Bootstrap UCL	20.6
Anderson-Darling Test Statistic	0.562	95% Bootstrap-t UCL	22.63
Anderson-Darling 5% Critical Value	0.724	95% Hall's Bootstrap UCL	19.35
Kolmogorov-Smirnov Test Statistic	0.236	95% Percentile Bootstrap UCL	20.79
Kolmogorov-Smirnov 5% Critical Value	0.297	95% BCA Bootstrap UCL	20.78
Data appear Gamma Distributed at 5% Significance		95% Chebyshev(Mean, Sd) UCL	31.13
		97.5% Chebyshev(Mean, Sd) UCL	38.13
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	51.87
95% Approximate Gamma UCL	26.79		
95% Adjusted Gamma UCL	31.36		***************************************
Potential UCL to Use		Use 95% Student's-t UCL	21.98

General Statistics

			Para di Nasa Tanan
Number of Valid Samples	8	Number of Unique Samples	8
Raw Statistics		Log-transformed Statistics	******************************
Minimum	0.0013	Minimum of Log Data	-6.63
Maximum	0.031	Maximum of Log Data	-3.474
Mean	0.0089	Mean of log Data	-5.269
Median	0.0067	SD of log Data	1.16
SD	0.0099		
Coefficient of Variation	1.115		
Skewness	1.87		***************************************
R	elevant UCL	Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.777	Shapiro Wilk Test Statistic	0.9
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.81
Data not Normal at 5% Significance Level	0.010	Data appear Lognormal at 5% Significance Leve	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0156	95% H-UCL	0.05
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.02
95% Adjusted-CLT UCL	0.0172	97.5% Chebyshev (MVUE) UCL	0.03
95% Modified-t UCL	0.016	99% Chebyshev (MVUE) UCL	0.04
Gamma Distribution Test	au cara	Data Distribution	
k star (bias corrected)	0.737	Data appear Gamma Distributed at 5% Significance I	_evel
Theta Star	0.0121		
nu star	11.79		
Approximate Chi Square Value (.05)	5.091	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	95% CLT UCL	0.01
Adjusted Chi Square Value	4.035	95% Jackknife UCL	0.01
		95% Standard Bootstrap UCL	0.01
Anderson-Darling Test Statistic	0.406	95% Bootstrap-t UCL	0.02
Anderson-Darling 5% Critical Value	0.735	95% Hall's Bootstrap UCL	0.04
Kolmogorov-Smirnov Test Statistic	0.226	95% Percentile Bootstrap UCL	0.01
Kolmogorov-Smirnov 5% Critical Value	0.301	95% BCA Bootstrap UCL	0.01
Data appear Gamma Distributed at 5% Significance L	.evel	95% Chebyshev(Mean, Sd) UCL	0.02
	***************************************	97.5% Chebyshev(Mean, Sd) UCL	0.03
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.04
95% Approximate Gamma UCL	0.0206		
95% Adjusted Gamma UCL	0.0261		
Potential UCL to Use		Use 95% Approximate Gamma UCL	0.02
esult or 1/2 SDL (cadmium)			0.02
	General Sta		
Number of Valid Samples	8	Number of Unique Samples	7
Raw Statistics	all address of the state of the	Log-transformed Statistics	
Minimum	0.015	Minimum of Log Data	-4.2
Maximum	0.27	Maximum of Log Data	-1.309

Mean	0.147	Mean of log Data	-2.491
Median	0.19	SD of log Data	1.37
SD	0.112		**************************************
Coefficient of Variation	0.762		
Skewness	-0.424		
	Relevant U	CL Statistics	PHROMON
Normal Distribution Test	H1712H273H433H4373H4373H4374H4	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.802	Shapiro Wilk Test Statistic	0.71
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.81
Data not Normal at 5% Significance Level	ettellander i se sekretaken i sekretaken i	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	***************************************	Assuming Lognormal Distribution	
95% Student's-t UCL	0.222	95% H-UCL	2.23
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.56
95% Adjusted-CLT UCL	0.206	97.5% Chebyshev (MVUE) UCL	0.72
95% Modified-t UCL	0.221	99% Chebyshev (MVUE) UCL	1.05
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.711	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	0.207		- ,
nu star	11.37		W
Approximate Chi Square Value (.05)	4.814	Nonparametric Statistics	
Adjusted Level of Significance	0.0195		0.21
Adjusted Chi Square Value	3.794	95% Jackknife UCL	0.22
Adjusted off oquality value	0.704	95% Standard Bootstrap UCL	0.20
Anderson-Darling Test Statistic	1.11	95% Bootstrap-t UCL	0.21
Anderson-Darling 5% Critical Value	0.735	95% Hall's Bootstrap UCL	0.19
Kolmogorov-Smirnov Test Statistic	0.755	95% Percentile Bootstrap UCL	0.13
atternoone augus annoone anternooniga en anternooni meritemen annooni matternooni matternooni anternooni anternooni			
Kolmogorov-Smirnov 5% Critical Value	0.301	95% BCA Bootstrap UCL	0.20
Data not Gamma Distributed at 5% Significance Lo	evei	95% Chebyshev(Mean, Sd) UCL	
		97.5% Chebyshev(Mean, Sd) UCL	0.39
Assuming Gamma Distribution	0040	99% Chebyshev(Mean, Sd) UCL	0.54
95% Approximate Gamma UCL	0.348		
95% Adjusted Gamma UCL	0.441		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.54
Recommended U	JCL exceed	ds the maximum observation	
sult or 1/2 SDL (carbon disulfide)			weeks and the tentral to
	General	Statistics	
Number of Valid Samples	General 8	Number of Unique Samples	8
Raw Statistics		Log-transformed Statistics	
	9.5500E-5	Minimum of Log Data	-9.256
Maximum	0.0077		-4.865
Mean	0.0013		-7.554
	4.8175E-4	SD of log Data	1.36
SD	0.0025		
Coefficient of Variation	1.875		

Skewness	2.757		
	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.522	Shapiro Wilk Test Statistic	0.89
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.81
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0031	95% H-UCL	0.0
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.00
95% Adjusted-CLT UCL	0.0038	97.5% Chebyshev (MVUE) UCL	0.00
95% Modified-t UCL	0.0032	99% Chebyshev (MVUE) UCL	0.00
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.48	Data Follow Appr. Gamma Distribution at 5% Significance	e Leve
Theta Star	0.0028		
nu star	7.688		
Approximate Chi Square Value (.05)	2.555	Nonparametric Statistics	.40.11.000.000
Adjusted Level of Significance	0.0195	95% CLT UCL	0.00
Adjusted Chi Square Value	1.871	95% Jackknife UCL	0.00
		95% Standard Bootstrap UCL	0.00
Anderson-Darling Test Statistic	0.892	95% Bootstrap-t UCL	0.0
Anderson-Darling 5% Critical Value	0.753	95% Hall's Bootstrap UCL	0.0
Kolmogorov-Smirnov Test Statistic	0.298	95% Percentile Bootstrap UCL	0.00
Kolmogorov-Smirnov 7est Statistic	0.306	95% BCA Bootstrap UCL	0.00
Data follow Appr. Gamma Distribution at 5% Significan		95% Chebyshev(Mean, Sd) UCL	0.00
Data follow Appl. Gallillia Distribution at 5% Significan	ce resei	97.5% Chebyshev(Mean, Sd) UCL	0.00
Acquaries Oceano Distribution		99% Chebyshev(Mean, Sd) UCL	0.0
Assuming Gamma Distribution	0.0041	99% Chebyshev(weah, Su) occ	0.0
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.0041 0.0056		
Potential UCL to Use		Use 95% Approximate Gamma UCL	0.00
esult or 1/2 SDL (chromium)			
	General S		
Number of Valid Samples	8	Number of Unique Samples	8
Raw Statistics		Log-transformed Statistics	
Minimum	8.29	Minimum of Log Data	2.11
Maximum	20.1	Maximum of Log Data	3.00
Mean	12.93	Mean of log Data	2.50
Median	11.55	SD of log Data	0.35
SD	4.611		
Coefficient of Variation	0.357		
Skewness	0.57		na unererettedes
	Relevant UC		
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.881	Shapiro Wilk Test Statistic	0.89

Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.81
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	
Assuming Normal Distribution	·	Assuming Lognormal Distribution	
95% Student's-t UCL	16.02	95% H-UCL	17.29
95% UCLs (Adjusted for Skewness)	ç.n., ıpı	95% Chebyshev (MVUE) UCL	19.93
95% Adjusted-CLT UCL	15.97	97.5% Chebyshev (MVUE) UCL	22.96
95% Modified-t UCL	16.08	99% Chebyshev (MVUE) UCL	28.91
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	5.937	Data appear Normal at 5% Significance Level	
Theta Star	2.178		4-++
nu star	94.99		
Approximate Chi Square Value (.05)	73.51	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	95% CLT UCL	15.61
Adjusted Chi Square Value	68.75	95% Jackknife UCL	16.02
Adjusted off oquate value	00.70	95% Standard Bootstrap UCL	15.4
Anderson-Darling Test Statistic	0.448	95% Bootstrap-t UCL	16.66
	0.448	95% Bootstrap-t OCL	15.32
Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic	0.715	95% Percentile Bootstrap UCL	15.3
			15.63
Kolmogorov-Smirnov 5% Critical Value	0.294	95% BCA Bootstrap UCL	
Data appear Gamma Distributed at 5% Significance	Leve	95% Chebyshev(Mean, Sd) UCL	20.04
		97.5% Chebyshev(Mean, Sd) UCL	23.11
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	29.15
95% Approximate Gamma UCL	16.71		
95% Adjusted Gamma UCL	17.87		
Potential UCL to Use		Use 95% Student's-t UCL	16.02
esult or 1/2 SDL (chrysene)			
	General S	tatistics	7-4-14
Number of Valid Samples	8	Number of Unique Samples	5
Raw Statistics		Log-transformed Statistics	
Minimum	0.0065	Minimum of Log Data	-5.036
Maximum	0.0003	Maximum of Log Data	-3.66
lettilalahyh afalahka foo yoggops og om om og op og om om og op og op og op og op og op og op og op og op og o	0.0257	Mean of log Data	-3.06
Medias			-4.785 0.46
n#=diam/	0.007	SD of log Data	U.4t
Median			
SD	0.0065		
SD Coefficient of Variation	0.697		
SD			
SD Coefficient of Variation Skewness	0.697		
SD Coefficient of Variation Skewness F Normal Distribution Test	0.697 2.777 Relevant UCI	Lognormal Distribution Test	
SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic	0.697 2.777 Relevant UCI 0.501	Lognormal Distribution Test Shapiro Wilk Test Statistic	0.57
SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.697 2.777 Relevant UCI	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	
SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic	0.697 2.777 Relevant UCI 0.501	Lognormal Distribution Test Shapiro Wilk Test Statistic	0.57
SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.697 2.777 Relevant UCI 0.501	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	

95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.015
95% Adjusted-CLT UCL	0.0157	97.5% Chebyshev (MVUE) UCL	0.018
95% Modified-t UCL	0.0143	99% Chebyshev (MVUE) UCL	0.024
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	2.693	Data do not follow a Discernable Distribution (0.05)
Theta Star	0.0035		
nu star	43.09		
Approximate Chi Square Value (.05)	29.04	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	95% CLT UCL	0.013
Adjusted Chi Square Value	26.16	95% Jackknife UCL	0.013
	mortisan esembles en en en en en en en en en en en en en	95% Standard Bootstrap UCL	0.013
Anderson-Darling Test Statistic	1.788	95% Bootstrap-t UCL	0.058
Anderson-Darling 5% Critical Value	0.719	95% Hall's Bootstrap UCL	0.037
Kolmogorov-Smirnov Test Statistic	0.395	95% Percentile Bootstrap UCL	0.014
Kolmogorov-Smirnov 5% Critical Value	0.295	95% BCA Bootstrap UCL	0.014
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.019
		97.5% Chebyshev(Mean, Sd) UCL	0.024
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.032
95% Approximate Gamma UCL	0.014	3370 Olichystic Vivient, ddy Goel	0.002
95% Adjusted Gamma UCL	0.0156		
33 /a Aujusteu Gamma OCL	0.0130		
Potential UCL to Use		Use 95% Student's-t UCL	0.013
1 Otential OCE to use		or 95% Modified-t UCL	0.013
t or 1/2 SDL (cobalt)			
t or 1/2 SDL (cobalt)			
t or 1/2 SDL (cobalt) Number of Valid Samples	General Stat	istics Number of Unique Samples	8
			8
			8
Number of Valid Samples		Number of Unique Samples	8
Number of Valid Samples Raw Statistics	8	Number of Unique Samples Log-transformed Statistics	
Number of Valid Samples Raw Statistics Minimum	5.19	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	1.647
Number of Valid Samples Raw Statistics Minimum Maximum	5.19	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	1.647 2.196
Number of Valid Samples Raw Statistics Minimum Maximum Mean	5.19 8.99 6.939	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	1.647 2.196 1.92
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	5.19 8.99 6.939 6.945	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	1.647 2.196 1.92
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	5.19 8.99 6.939 6.945 1.378	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	1.647 2.196 1.92
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	5.19 8.99 6.939 6.945 1.378 0.199 0.167	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	1.647 2.196 1.92
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	5.19 8.99 6.939 6.945 1.378 0.199	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	1.647 2.196 1.92
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	5.19 8.99 6.939 6.945 1.378 0.199 0.167	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	1.647 2.196 1.92
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	5.19 8.99 6.939 6.945 1.378 0.199 0.167	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data tatistics Lognormal Distribution Test	1.647 2.196 1.92 0.2
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic	5.19 8.99 6.939 6.945 1.378 0.199 0.167 elevant UCL S	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic	1.647 2.196 1.92 0.2
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level	5.19 8.99 6.939 6.945 1.378 0.199 0.167 elevant UCL S	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level	1.647 2.196 1.92 0.2
Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution	5.19 8.99 6.939 6.945 1.378 0.199 0.167 elevant UCL S 0.947 0.818	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level	1.647 2.196 1.92 0.2 0.945 0.818
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	5.19 8.99 6.939 6.945 1.378 0.199 0.167 elevant UCL S	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data tatistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	1.647 2.196 1.92 0.2 0.945 0.818
Number of Valid Samples Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	5.19 8.99 6.939 6.945 1.378 0.199 0.167 elevant UCL S 0.947 0.818	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	1.647 2.196 1.92 0.2 0.945 0.818 8.067 9.086
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	5.19 8.99 6.939 6.945 1.378 0.199 0.167 elevant UCL S 0.947 0.818	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data tatistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	1.647 2.196 1.92 0.2 0.945 0.818

Gamma Distribution Test		Data Distribution	
k star (bias corrected)	<u> </u>	Data appear Normal at 5% Significance Level	
Theta Star	<u> </u>		
nu star			
Approximate Chi Square Value (.05)	251.1	Nonparametric Statistics	
Adjusted Level of Significance	0.0195		7.74
Adjusted Chi Square Value	242	95% Jackknife UCL	7.86
		95% Standard Bootstrap UCL	7.68
Anderson-Darling Test Statistic	0.268	95% Bootstrap-t UCL	7.8
Anderson-Darling 5% Critical Value	0.716	95% Hall's Bootstrap UCL	7.6
Kolmogorov-Smirnov Test Statistic	0.197	95% Percentile Bootstrap UCL	7.6
Kolmogorov-Smirnov 5% Critical Value	0.294	95% BCA Bootstrap UCL	7.6
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	9.0
		97.5% Chebyshev(Mean, Sd) UCL	9.9
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	11.7
95% Approximate Gamma UCL	8		
95% Adjusted Gamma UCL	8.3		
Potential UCL to Use		Use 95% Student's-t UCL	7.8
	General		
Number of Valid Samples	8	Number of Unique Samples	8
Raw Statistics		Log-transformed Statistics	
Minimum	8.33	Minimum of Log Data	2.1
Maximum	26.8	Maximum of Log Data	3.2
Mean	15.2	Mean of log Data	2.6
Median	12.55	SD of log Data	0.4
SD	7.421		
Coefficient of Variation	0.488		
Skewness	0.836		
	Relevant UC	CL Statistics	
Normal Distribution Test	0045	Lognormal Distribution Test	Λ 0
Shapiro Wilk Test Statistic	0.845 0.818	Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.8
Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level	0.818	Data appear Lognormal at 5% Significance Level	
Accuming Normal Distribution		Assuming Lognormal Distribution	
Assuming Normal Distribution 95% Student's-t UCL	20.17	95% H-UCL	23.1
95% UCLs (Adjusted for Skewness)	۷۷,۱/	95% Chebyshev (MVUE) UCL	26.1
95% OCLS (Adjusted for Skewness) 95% Adjusted-CLT UCL	20.34	97.5% Chebyshev (MVUE) UCL	30.9
95% Adjusted-CL1 OCL 95% Modified-t UCL	20.34	99% Chebyshev (MVUE) UCL	40.2
Gamma Distribution Test		Data Distribution	
Camina Distribution Lest			
k etar/hiae corroctod)	3 353	I lata appear Mormai at 5% Significance i evel	
k star (bias corrected) Theta Star	3.353 4.533	Data appear Normal at 5% Significance Level	-4
k star (bias corrected) Theta Star nu star	3.353 4.533 53.65	Data appear Normal at 5% Significance Level	

The state that safety along the weeks a decreased to the second of the s	1-51 × 5	errors composes and tradescent area for the file services and the second section of the section of the	in e Nordena
Adjusted Level of Significance	0.0195	95% CLT UCL	19.51
Adjusted Chi Square Value	i .	95% Jackknife UCL	20.17
Adjusted Oil Oquale Value	34.43	95% Standard Bootstrap UCL	19.15
Anderson-Darling Test Statistic	0.476	95% Bootstrap-t UCL	23.91
	<u> </u>		23.91
Anderson-Darling 5% Critical Value	ŧ	95% Hall's Bootstrap UCL	
Kolmogorov-Smirnov Test Statistic]	95% Percentile Bootstrap UCL	19.18
Kolmogorov-Smirnov 5% Critical Value	{	95% BCA Bootstrap UCL	19.81
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	26.64
		97.5% Chebyshev(Mean, Sd) UCL	31.58
Assuming Gamma Distribution	<u> </u>	99% Chebyshev(Mean, Sd) UCL	41.31
95% Approximate Gamma UCL			
95% Adjusted Gamma UCL	23.64		
Potential UCL to Use		Use 95% Student's-t UCL	20.17
Result or 1/2 SDL (iron)			
	General S	Statistics	
Number of Valid Samples	8	Number of Unique Samples	8
Raw Statistics		Log-transformed Statistics	
Minimum	11300	Minimum of Log Data	9.33
Maximum		Maximum of Log Data	9.90
		Mean of log Data	9.61
Mean		[
Median		SD of log Data	0.21
SD ST	3227		
Coefficient of Variation	0.211 0.139		
Skewness	U.139		
	Relevant UC	Polyndal malayana ana ang 4444-yanda manabaasaasaa 4416 malayan ang ang ang ang ang ang ang ang ang a	
Normal Distribution Test) All programmes and a	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.94	Shapiro Wilk Test Statistic	0.93
Shapiro Wilk Critical Value		Shapiro Wilk Critical Value	0.81
Data appear Normal at 5% Significance Level	4	Data appear Lognormal at 5% Significance Leve	
Assuming Normal Distribution	de décentraries de la constant de la	Assuming Lognormal Distribution	
95% Student's-t UCL	17437		17970
95% UCLs (Adjusted for Skewness)	L,		20327
95% Adjusted-CLT UCL	17212		22512
95% Modified-t UCL	} 		26805
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	15.92	Data appear Normal at 5% Significance Level	
Theta Star	959.6		
nu star	254.7		
Approximate Chi Square Value (.05)	218.7	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	95% CLT UCL	
Adjusted Chi Square Value	210.3		17437
			16994
Anderson-Darling Test Statistic	0.298	•	17461
Anderson-Darling 5% Critical Value	0.716	95% Hall's Bootstrap UCL	16993

	عالمت بالزيارة		
Kolmogorov-Smirnov Test Statistic	0.203	95% Percentile Bootstrap UCL	
Kolmogorov-Smirnov 5% Critical Value	0.294	95% BCA Bootstrap UCL	17050
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	20249
		97.5% Chebyshev(Mean, Sd) UCL	22401
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	26629
95% Approximate Gamma UCL	17786		
95% Adjusted Gamma UCL	18500		
Potential UCL to Use		Use 95% Student's-t UCL	17437
sult or 1/2 SDL (lead)			
	General	Statistics	
Number of Valid Samples	8	Number of Unique Samples	8
Raw Statistics	Maraman trade a theory - Personal Co.	Log-transformed Statistics	
Minimum	10.6	Minimum of Log Data	2.36
Maximum	30.5	Maximum of Log Data	3.41
Mean	17.54	Mean of log Data	2.79
Median	15.5	SD of log Data	0.38
SD	7.076		
Coefficient of Variation	0.403		
Skewness	0.923		
F	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.899	Shapiro Wilk Test Statistic	0.93
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.81
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	1
Assuming Normal Distribution		Assuming Lognormal Distribution	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
95% Student's-t UCL	22.28	95% H-UCL	24.3
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	27.92
95% Adjusted-CLT UCL	22.52	97.5% Chebyshev (MVUE) UCL	32.44
95% Modified-t UCL	22.41	99% Chebyshev (MVUE) UCL	41.3
Garnma Distribution Test	·	Data Distribution	
k star (bias corrected)	4.874	Data appear Normal at 5% Significance Level	
Theta Star	3.598		***************************************
nu star	77.99	18-18-4-5-4-5-4-4-4-18-18-18-18-18-18-18-18-18-18-18-18-18-	
Approximate Chi Square Value (.05)	58.64	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	95% CLT UCL	21.65
Adjusted Chi Square Value	54.42	95% Jackknife UCL	22.28
		95% Standard Bootstrap UCL	21.37
Anderson-Darling Test Statistic	0.324	95% Bootstrap-t UCL	23.69
Anderson-Darling 5% Critical Value	0.717	95% Hall's Bootstrap UCL	22.55
Kolmogorov-Smirnov Test Statistic	0.187	95% Percentile Bootstrap UCL	21.63
Kolmogorov-Smirnov 5% Critical Value	0.295	95% BCA Bootstrap UCL	22.26
		== .5 20 200.0. ap 00m	
		95% Chebyshev(Mean. Sd) LICI	28.44
Data appear Gamma Distributed at 5% Significance		95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL	28.44 33.16

	22.22		
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	23.32 25.13		
oow agasto damii oo	20.10		***************************************
Potential UCL to Use		Use 95% Student's-t UCL	22.28
esult or 1/2 SDL (lithium)			
Salt of 172 obe (initially)	General S	Valiation	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Number of Valid Samples	8	Number of Unique Samples	8
Raw Statistics		Log-transformed Statistics	v.m.p.m.b.m.t.m.t.m.t.m.t.m.t.m.t.m.t.m.t.m.t
. Minimum	13.5	Minimum of Log Data	2.60
Maximum	23.7	Maximum of Log Data	3.16
Mean	18.48	Mean of log Data	2.89
Median	18.85	SD of log Data	0.22
SD	4.071		
Coefficient of Variation	0.22		
Skewness	0.0036		
	Relevant UC		
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.903	Shapiro Wilk Test Statistic	0.89
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.8
Data appear Normal at 5% Significance Level	S. Vicentina de la Constantina del Constantina de la Constantina de la Constantina de la Constantina de la Constantina de la Constantina de la Constantina de la Constantina de la Constantina de la Constantina de la Constantina de la Constantina de la Constantina de la Constantina de la Constantina de la Constantina de la Constantina de la Constantina de la Constantina de la Constantina d	Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	21.2	95% H-UCL	21.9
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	24.92
95% Adjusted-CLT UCL	20.84	97.5% Chebyshev (MVUE) UCL	27.7
95% Modified-t UCL	21.2	99% Chebyshev (MVUE) UCL	33.1
Gamma Distribution Test	The state of the s	Data Distribution	
k star (bias corrected)	14.45	Data appear Normal at 5% Significance Level	
Theta Star	1.278		
nu star	231.2		
Approximate Chi Square Value (.05)	197	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	95% CLT UCL	20.84
Adjusted Chi Square Value	189	95% Jackknife UCL	21.2
		95% Standard Bootstrap UCL	20.6
Anderson-Darling Test Statistic	0.416	95% Bootstrap-t UCL	21.1
Anderson-Darling 5% Critical Value	0.716	95% Hall's Bootstrap UCL	20.5
Kolmogorov-Smirnov Test Statistic	0.22	95% Percentile Bootstrap UCL	20.6
Kolmogorov-Smirnov 5% Critical Value	0.294	95% BCA Bootstrap UCL	20.6
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	24.7
		97.5% Chebyshev(Mean, Sd) UCL	27.4
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	32.8
95% Approximate Gamma UCL	21.68		
95% Adjusted Gamma UCL	22.6		***************************************
	<u> </u>		

	General Sta	tistics	***************************************
Number of Valid Samples	8	Number of Unique Samples	7
Raw Statistics	Ì	Log-transformed Statistics	
Minimum	0.0105	Minimum of Log Data	-4.55
Maximum	0.0375	Maximum of Log Data	-3.28
Mean	0.0149	Mean of log Data	-4.3
Median	0.0117	SD of log Data	0.4
SD	0.0092		.mmmai
Coefficient of Variation	0.619		
Skewness	2.758		
R	elevant UCL S	Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.523	Shapiro Wilk Test Statistic	0.6
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	3.0
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.021	95% H-UCL	0.0
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0
95% Adjusted-CLT UCL	0.0236	97.5% Chebyshev (MVUE) UCL	0.0
95% Modified-t UCL	0.0216	99% Chebyshev (MVUE) UCL	0.0
Gamma Distribution Test	-	. Data Distribution	***************************************
k star (bias corrected)	3.242	Data Distribution Data do not follow a Discernable Distribution (0.05	````
Theta Star	0.0045	Data do not follow a Discernable Distribution (0.03)
nu star	51.87		L
Approximate Chi Square Value (.05)	36.33	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	95% CLT UCL	0.0
Adjusted Chi Square Value	33.07	95% Jackknife UCL	0.0
, ajaseg em equale value	00.07	95% Standard Bootstrap UCL	0.0
Anderson-Darling Test Statistic	1.626	95% Bootstrap-t UCL	0.0
Anderson-Darling 5% Critical Value	0.719	95% Hall's Bootstrap UCL	0.0
Kolmogorov-Smirnov Test Statistic	0.401	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.295	95% BCA Bootstrap UCL	0.0
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.0
3		97.5% Chebyshev(Mean, Sd) UCL	0.0
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0
95% Approximate Gamma UCL	0.0212	7.1.2 (1.1.2)	J, J
95% Adjusted Gamma UCL	0.0233		***************************************
Potential UCL to Use	Period and analysis and	Use 95% Student's-t UCL	0.0
r diential oct to use			
M41.004.01.1.1.1.1.1	Į	or 95% Modified-t UCL	0.0

General Statistics

Number of Valid Samples	8	Number of Unique Samples	8
Number of Valid Campies		italibei di dilique dalliples	
Raw Statistics		Log-transformed Statistics	
Minimum	352	Minimum of Log Data	5.8
Maximum	<u> </u>	Maximum of Log Data	6.5
Mean	487.6	Mean of log Data	6.1
Median	453	SD of log Data	0.2
SD	124.2	g	
Coefficient of Variation	0.255		
Skewness	0.739		
	Relevant I I	CL Statistics	- K M M M M M M M.
Normal Distribution Test	nelevant O	Lognormal Distribution Test	~
Shapiro Wilk Test Statistic	0.921	Shapiro Wilk Test Statistic	0.9
Shapiro Wilk Critical Value	0.921	Shapiro Wilk Critical Value	0.8
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	
Data appear Normal at 5% Significance Level	1911/04-111/04/14/1907-11/1917-1914	Data appear Lognormal at 5% Significance Leve	***************************************
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	570.8	95% H-UCL	590.3
95% UCLs (Adjusted for Skewness)	Mari-Man Was Livinia et Me mari mari	95% Chebyshev (MVUE) UCL	673.6
95% Adjusted-CLT UCL	572.1	97.5% Chebyshev (MVUE) UCL	754.2
95% Modified-t UCL	572.7	99% Chebyshev (MVUE) UCL	912.6
Gamma Distribution Test	······································	Data Distribution	
k star (bias corrected)	11.66	Data appear Normal at 5% Significance Level	
Theta Star	41.81		
nu star	186.6		
Approximate Chi Square Value (.05)	156	Nonparametric Statistics	d
Adjusted Level of Significance	0.0195		559.8
Adjusted Chi Square Value		95% Jackknife UCL	570.8
Adjusted of a oquate value	140.0	95% Standard Bootstrap UCL	556
Anderson-Darling Test Statistic	0.297	95% Bootstrap-t UCL	592.1
		1	
Anderson-Darling 5% Critical Value	0.716	95% Hall's Bootstrap UCL	575
Kolmogorov-Smirnov Test Statistic	0.171	95% Percentile Bootstrap UCL	560.3
Kolmogorov-Smirnov 5% Critical Value	0.294	95% BCA Bootstrap UCL	567
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	679
		97.5% Chebyshev(Mean, Sd) UCL	761.8
Assuming Gamma Distribution	************************	99% Chebyshev(Mean, Sd) UCL	924.4
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	583.3 611		
95% Aujusieu Gamma OCL	DII		
Potential UCL to Use		Use 95% Student's-t UCL	570.8
Potential UCL to Use		Use 95% Student's-t UCL	570.
		Statistics	
Number of Valid Samples	8	Number of Unique Samples	8
Raw Statistics		Log-transformed Statistics	
Minimum	7.9500E-4	Minimum of Log Data	-7.13

er (1908-1908) i ki merrelager (1908-1904) en er en en en en en en en en en en en en en	Jagone Helevill	(2001) 1984 (1988) 11 - 1284) 17 - 17 - 18 12 12 12 12 12 12 12 12 14 14 14 14 14 14 14 14 14 14 14 14 14	Market Aller
Mean	0.0081	Mean of log Data	-5.689
Median		SD of log Data	-5.669 1.357
Wedian	<u> </u>	Su oi log Data	1.35/
Coefficient of Variation	I		
Skewness	ļ		
Grewitess	2.024		
	Relevant UC		
Normal Distribution Test	0.503	Lognormal Distribution Test	0.000
Shapiro Wilk Test Statistic	<u>l</u>	Shapiro Wilk Test Statistic	0.898
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.818
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	3 1
Assuming Normal Distribution		Assuming Lognormal Distribution	······································
95% Student's-t UCL	0.0172	95% H-UCL	0.083
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.022
95% Adjusted-CLT UCL	0.0207	97.5% Chebyshev (MVUE) UCL	0.028
95% Modified-t UCL	0.0179	99% Chebyshev (MVUE) UCL	0.041
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.516	Data Distribution Data appear Gamma Distributed at 5% Significance	Level
Theta Star	0.0157		
nu star	8.249		***************************************
Approximate Chi Square Value (.05)	2.88	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	95% CLT UCL	0.016
Adjusted Chi Square Value	2.141	95% Jackknife UCL	0.017
		95% Standard Bootstrap UCL	0.015
Anderson-Darling Test Statistic	0.64	95% Bootstrap-t UCL	0.049
Anderson-Darling 5% Critical Value	0.749	95% Hall's Bootstrap UCL	0.051
Kolmogorov-Smirnov Test Statistic	0.232	95% Percentile Bootstrap UCL	0.017
Kolmogorov-Smirnov 5% Critical Value	0.305	95% BCA Bootstrap UCL	0.018
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	0.029
		97.5% Chebyshev(Mean, Sd) UCL	0.038
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.055
95% Approximate Gamma UCL	0.0232		·
95% Adjusted Gamma UCL	0.0313		
Potential UCL to Use		Use 95% Approximate Gamma UCL	0.023
		, ,	
esult or 1/2 SDL (molybdenum)			
	General S	latistics	
Number of Valid Samples	8	Number of Unique Samples	5
Raw Statistics		Log-transformed Statistics	
Minimum	0.055	Minimum of Log Data	-2.9
Maximum	0.6	Maximum of Log Data	-0.511
Mean	0.146	Mean of log Data	-2.382
Median	0.06	SD of log Data	0.881
SD	0.191		
Coefficient of Variation	1.312		
Skewness	2.461		

	Relevant UC	L Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.569	Shapiro Wilk Test Statistic	0.67
Shapiro Wilk Critical Value	1	Shapiro Wilk Critical Value	0.8
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	***************************************
95% Student's-t UCL	0.274	95% H-UCL	0.39
95% UCLs (Adjusted for Skewness)	J 0.274	95% Chebyshev (MVUE) UCL	0.30
95% Adjusted-CLT UCL	. 0.32	97.5% Chebyshev (MVUE) UCL	0.3
95% Modified-t UCL	.)	99% Chebyshev (MVUE) UCL	0.5
33 % Mounted Coc	0.200	3370 Chebyshev (NivoL) CCL	0.0
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.857	Data do not follow a Discernable Distribution (0.05)	<u> </u>
Theta Star			
nu star		peroviped of the results of the desirable of the food and a surger may still distribution resulting about a surger may still desirable to the surger may still be surger to the	
Approximate Chi Square Value (.05)	1	Nonparametric Statistics	
Adjusted Level of Significance	<u> </u>	95% CLT UCL	0.2
Adjusted Chi Square Value		95% Jackknife UCL	0.2
Adjusted of the option value	0.102	95% Standard Bootstrap UCL	0.2
Anderson-Darling Test Statistic	1.46	95% Bootstrap-t UCL	3.2
Anderson-Darling 5% Critical Value	<u>(</u>	95% Hall's Bootstrap UCL	2.4
Kolmogorov-Smirnov Test Statistic	1 1	95% Percentile Bootstrap UCL	0.2
Kolmogorov-Smirnov 5% Critical Value	1	95% BCA Bootstrap UCL	0.2
Data not Gamma Distributed at 5% Significance L	!	95% Chebyshev(Mean, Sd) UCL	0.4
Data not Gamma Distributed at 3% Significance E	.evei	97.5% Chebyshev(Mean, Sd) UCL	0.5
Assuming Gamma Distribution	<u> </u>	99% Chebyshev(Mean, Sd) UCL	0.8
95% Approximate Gamma UCL	0.313	39% Chebyshev(Mean, Su) OCL	υ.c
95% Approximate Gamma OCL 95% Adjusted Gamma UCL	L		
95% Adjusted Gamma OCL	0.387		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.4
sult or 1/2 SDL (nickel)			
	General S		
Number of Valid Samples	8	Number of Unique Samples	8
Raw Statistics		Log-transformed Statistics	ne shanner of Farmer
Minimum	12.3	Minimum of Log Data	2.5
Maximum	20.6	Maximum of Log Data	3.0
Mean	16.33	Mean of log Data	2.7
Median	16.65	SD of log Data	0.1
SD	3.09		**********
Coefficient of Variation	0.189		
Skewness			
	Relevant UCI	_ Statistics	
Normal Distribution Test		Lognormal Distribution Test	
	3	gironnai piesipulluli 1631	
Shapiro Wilk Test Statistic	0.928	Shapiro Wilk Test Statistic	0.9

Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	18.4	95% H-UCL	18.87
95% UCLs (Adjusted for Skewness)	<u> </u>	95% Chebyshev (MVUE) UCL	21.2
95% Adjusted-CLT UCL	18.1	97.5% Chebyshev (MVUE) UCL	23.31
95% Modified-t UCL	18.39	99% Chebyshev (MVUE) UCL	27.46
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	19.56	Data appear Normal at 5% Significance Level	
Theta Star		Dua appear Normal at 5% organicalities activities	·
nu star			
Approximate Chi Square Value (.05)	272.9	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	95% CLT UCL	18.12
Adjusted Chi Square Value			18.4
Adjusted Chi Square Value	263.5	95% Jackknife UCL	
		95% Standard Bootstrap UCL	18.04
Anderson-Darling Test Statistic	0.362	95% Bootstrap-t UCL	18.49
Anderson-Darling 5% Critical Value	0.716	95% Hall's Bootstrap UCL	17.89
Kolmogorov-Smirnov Test Statistic	0.218	95% Percentile Bootstrap UCL	17.96
Kolmogorov-Smirnov 5% Critical Value	0.294	95% BCA Bootstrap UCL	17.91
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	21.09
		97.5% Chebyshev(Mean, Sd) UCL	23.15
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	27.2
95% Approximate Gamma UCL	18.72		
95% Adjusted Gamma UCL	19.39		***************
Potential UCL to Use		Use 95% Student's-t UCL	18.4
Potential UCL to Use esult or 1/2 SDL (pyrene)		Use 95% Student's-t UCL	18.4
esult or 1/2 SDL (pyrene)	General Stat	tistics	18.4
	General Stat		18.4
esult or 1/2 SDL (pyrene)		tistics	
esult or 1/2 SDL (pyrene) Number of Valid Samples	8	tistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data	
esult or 1/2 SDL (pyrene) Number of Valid Samples Raw Statistics	8	tistics Number of Unique Samples Log-transformed Statistics	6
Pesult or 1/2 SDL (pyrene) Number of Valid Samples Raw Statistics Minimum	0.009	tistics Number of Unique Samples Log-transformed Statistics Minimum of Log Data	6 -4.711
Pasult or 1/2 SDL (pyrene) Number of Valid Samples Raw Statistics Minimum Maximum	0.009	Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-4.711 -3.631
Pesult or 1/2 SDL (pyrene) Number of Valid Samples Raw Statistics Minimum Maximum Mean	0.009 0.0265 0.0147	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-4.711 -3.631 -4.32
Pasult or 1/2 SDL (pyrene) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	0.009 0.0265 0.0147 0.0105	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-4.711 -3.631 -4.32
Pesult or 1/2 SDL (pyrene) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD	0.009 0.0265 0.0147 0.0105 0.0073	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-4.711 -3.631 -4.32
Pasult or 1/2 SDL (pyrene) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.009 0.0265 0.0147 0.0105 0.0073 0.497	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-4.711 -3.631 -4.32
Pasult or 1/2 SDL (pyrene) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.009 0.0265 0.0147 0.0105 0.0073 0.497 0.806	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-4.711 -3.631 -4.32
Pasult or 1/2 SDL (pyrene) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.009 0.0265 0.0147 0.0105 0.0073 0.497 0.806	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-4.711 -3.631 -4.32
Pesult or 1/2 SDL (pyrene) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test	0.009 0.0265 0.0147 0.0105 0.0073 0.497 0.806	Log-transformed Statistics Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test	-4.711 -3.631 -4.32 0.46
Pesult or 1/2 SDL (pyrene) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic	0.009 0.0265 0.0147 0.0105 0.0073 0.497 0.806	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SLognormal Distribution Test Shapiro Wilk Test Statistic	-4.71 ⁻ -3.63 ⁻ -4.32 -4.32 -4.32
Pasult or 1/2 SDL (pyrene) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	0.009 0.0265 0.0147 0.0105 0.0073 0.497 0.806	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SLognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	-4.711 -3.631 -4.32 0.46
Pasult or 1/2 SDL (pyrene) Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.009 0.0265 0.0147 0.0105 0.0073 0.497 0.806	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data	-4.71 ⁻ -3.63 ⁻ -4.32 -4.32 -4.32

95% Adjusted-CLT UCL	0.0197	97.5% Chebyshev (MVUE) UCL	0.029
95% Modified-t UCL	0.0197	99% Chebyshev (MVUE) UCL	0.03
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	3.283	Data Follow Appr. Gamma Distribution at 5% Significance	ce Level
Theta Star	0.0044	7.	***************************************
nu star	52.53		
Approximate Chi Square Value (.05)	36.89	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	95% CLT UCL)	0.019
Adjusted Chi Square Value	33.6	95% Jackknife UCL	0.019
		95% Standard Bootstrap UCL	0.018
Anderson-Darling Test Statistic	0.881	95% Bootstrap-t UCL	0.02
Anderson-Darling 5% Critical Value	0.719	95% Hall's Bootstrap UCL	0.01
Kolmogorov-Smirnov Test Statistic	0.279	95% Percentile Bootstrap UCL	0.01
Kolmogorov-Smirnov 5% Critical Value	0.295	95% BCA Bootstrap UCL	0.019
ata follow Appr. Gamma Distribution at 5% Significan	ce Level	95% Chebyshev(Mean, Sd) UCL	0.02
		97.5% Chebyshev(Mean, Sd) UCL	0.03
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.04
95% Approximate Gamma UCL	0.021		
95% Adjusted Gamma UCL	0.023		10. 10. 10. 10. 10. 10. 10. 10. 10. 10.
Potential UCL to Use		Use 95% Approximate Gamma UCL	0.02
ult or 1/2 SDL (strontium)			
	General S		
Number of Valid Samples	General S	Statistics Number of Unique Samples	8
			8
Number of Valid Samples		Number of Unique Samples	
Number of Valid Samples Raw Statistics	8	Number of Unique Samples Log-transformed Statistics	4.14
Number of Valid Samples Raw Statistics Minimum	63.3	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	4.148 5.198
Number of Valid Samples Raw Statistics Minimum Maximum	63.3	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	4.14 5.19
Raw Statistics Minimum Maximum Mean Median	63.3 181 103.6	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	4.14 5.19 4.57
Raw Statistics Minimum Maximum Mean Median	63.3 181 103.6 89.45	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	4.14 5.19 4.57
Raw Statistics Minimum Maximum Mean Median	63.3 181 103.6 89.45 41.82	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	4.14 5.19 4.57
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	8 63.3 181 103.6 89.45 41.82 0.404	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	4.14 5.19 4.57
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	63.3 181 103.6 89.45 41.82 0.404	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	4.148 5.198 4.575
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	63.3 181 103.6 89.45 41.82 0.404	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	4.148 5.198 4.578
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	8 63.3 181 103.6 89.45 41.82 0.404 1 Relevant UC	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test	4.14i 5.19i 4.57i 0.38
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic	63.3 181 103.6 89.45 41.82 0.404 1	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic	4.144 5.194 4.579 0.38 0.93
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	63.3 181 103.6 89.45 41.82 0.404 1	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test Shapiro Wilk Critical Value	4.14 5.19 4.57 0.38 0.93
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level	63.3 181 103.6 89.45 41.82 0.404 1	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level	4.144 5.194 4.579 0.38 0.93
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution	8 63.3 181 103.6 89.45 41.82 0.404 1 1 Relevant UC 0.889 0.818	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level	4.144 5.196 4.579 0.38 0.93
Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL	8 63.3 181 103.6 89.45 41.82 0.404 1 1 Relevant UC 0.889 0.818	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	4.14 5.19 4.57 0.38 0.93 0.81
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	8 63.3 181 103.6 89.45 41.82 0.404 1 1 Relevant UC 0.889 0.818	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	4.14 5.19 4.57 0.38 0.93 0.81
Raw Statistics Minimum Maximum Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	8 63.3 181 103.6 89.45 41.82 0.404 1 1 Relevant UC 0.889 0.818	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data L Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	0.93 0.81 0.81 142.7 164.1

	Primaint, Fakin	Programs Assess Free Constant of Manager Services of Free Constant Assess Programs of Free Constant	7 - 7 50.383	
Theta Star	20.94			
nu star	ļ			
Approximate Chi Square Value (.05)		Nonparametric Statistics		
Adjusted Level of Significance	0.0195		127.9	
Adjusted Chi Square Value	1	95% Jackknife UCL	131.6	
		95% Standard Bootstrap UCL	126.2	
Anderson-Darling Test Statistic	0.349	95% Bootstrap-t UCL	145.3	
Anderson-Darling 5% Critical Value	<u> </u>	95% Hall's Bootstrap UCL	138.1	
Kolmogorov-Smirnov Test Statistic		95% Percentile Bootstrap UCL	127.7	
Kolmogorov-Smirnov 5% Critical Value	0.295	95% BCA Bootstrap UCL	132.3	
_	appear Gamma Distributed at 5% Significance Level 95% Chebyshev(Mea			
		97.5% Chebyshev(Mean, Sd) UCL	168.1 195.9	
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	250.7	
95% Approximate Gamma UCL	137.5			
95% Adjusted Gamma UCL	148			
	1.0			
Potential UCL to Use		Use 95% Student's-t UCL	131.6	
esult or 1/2 SDL (titanium)				
	General	Statistics		
Number of Valid Samples	8	Number of Unique Samples	8	
Raw Statistics		Log-transformed Statistics		
Minimum	19.1	Minimum of Log Data	2.95	
Maximum	40.5	Maximum of Log Data	3.70	
Mean	30	Mean of log Data	3.36	
Median	32.65	SD of log Data	0.28	
SD	8.035			
Coefficient of Variation	0.268			
Skewness	-0.263			
	Relevant UC	CL Statistics	***************************************	
Normal Distribution Test		Lognormal Distribution Test		
Shapiro Wilk Test Statistic	0.903	Shapiro Wilk Test Statistic	0.88	
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.81	
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level		
Assuming Normal Distribution	**************************************	Assuming Lognormal Distribution		
95% Student's-t UCL	35.38	95% H-UCL	37.72	
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	43.33	
95% Adjusted-CLT UCL	34.39	97.5% Chebyshev (MVUE) UCL	49.08	
95% Modified-t UCL	35.34	99% Chebyshev (MVUE) UCL	60.37	
Gamma Distribution Test	4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Data Distribution	nafa et san yan har ak k kamaya dapa a	
k star (bias corrected)	9.311	Data appear Normal at 5% Significance Level		
Theta Star	3.222			
nu star	149			
Approximate Chi Square Value (.05)	121.8	Nonparametric Statistics		
Adjusted Level of Significance	0.0195	95% CLT UCL	34.67	
Adjusted Chi Square Value	115.5	95% Jackknife UCL	35.38	

		95% Standard Bootstrap UCL	34.35
Anderson-Darling Test Statistic	0.516	95% Bootstrap-t UCL	35.38
Anderson-Darling 5% Critical Value	0.716	95% Hall's Bootstrap UCL	33.81
Kolmogorov-Smirnov Test Statistic	0.284	95% Percentile Bootstrap UCL	34.31
Kolmogorov-Smirnov 5% Critical Value	0.294	95% BCA Bootstrap UCL	34.31
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	42.38
		97.5% Chebyshev(Mean, Sd) UCL	47.74
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	58.27
95% Approximate Gamma UCL	36.7		
95% Adjusted Gamma UCL	38.68		
Potential UCL to Use		Use 95% Student's-t UCL	35.38
Result or 1/2 SDL (vanadium)			
	General		~~~~
Number of Valid Samples	8	Number of Unique Samples	8
Raw Statistics		Log-transformed Statistics	
Minimum	16.8	Minimum of Log Data	2.821
Maximum	27.4	Maximum of Log Data	3.311
Mean	21.83	Mean of log Data	3.067
Median	21.8	SD of log Data	0.19
SD	4.107		
Coefficient of Variation	0.188		
Skewness	0.0796		
	Relevant I IC	CL Statistics	
Normal Distribution Test	Cicvani OC	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.911	Shapiro Wilk Test Statistic	0.908
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.818
Data appear Normal at 5% Significance Level	0.010	Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	24.58	95% H-UCL	25.16
95% UCLs (Adjusted for Skewness)	24.50	95% Chebyshev (MVUE) UCL	28.24
	04.06	97.5% Chebyshev (MVUE) UCL	31.02
95% Adjusted-CLT UCL	24.26		
95% Modified-t UCL	24.58	99% Chebyshev (MVUE) UCL	36.47
Gamma Distribution Test	orange prompted and a second	Data Distribution	ara ann maithe a par faoinn a con feanna ach
k star (bias corrected)	20.05	Data appear Normal at 5% Significance Level	
. Theta Star	1.089		and a server that he able the best of the
nu star	320.8		
Approximate Chi Square Value (.05)	280.3	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	95% CLT UCL	24.21
Adjusted Chi Square Value	270.7	95% Jackknife UCL	24.58
, ,		95% Standard Bootstrap UCL	24.07
Anderson-Darling Test Statistic	0.392	95% Bootstrap-t UCL	24.63
Anderson-Darling 5% Critical Value	0.716	95% Hall's Bootstrap UCL	23.78
Kolmogorov-Smirnov Test Statistic	0.222	95% Percentile Bootstrap UCL	24.1
Kolmogorov-Smirnov 76st Statistic	0.294	95% BCA Bootstrap UCL	24.23
Rollingolov-offilinov 5% Critical Value	U.Z94	93% BCA BOOISHAP UCL	۷4،۷۵

Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	28.		
		97.5% Chebyshev(Mean, Sd) UCL	30.8		
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	36.2		
95% Approximate Gamma UCL	24.98				
95% Adjusted Gamma UCL	25.87				
Potential UCL to Use		Use 95% Student's-t UCL	24.5		
			-		
sult or 1/2 SDL (zinc)					
	General S				
Number of Valid Samples	8	Number of Unique Samples	8		
Raw Statistics		Log-transformed Statistics			
Minimum	38.2	Minimum of Log Data	3.		
¬ : Maximum	999	Maximum of Log Data	6.9		
Mean	332.3	Mean of log Data	4.		
Median	55.65	SD of log Data	1.4		
SD.	407.7				
Coefficient of Variation	1.227				
Skewness	0.879				
	Relevant UC	CL Statistics			
Normal Distribution Test		Lognormal Distribution Test	***************************************		
Shapiro Wilk Test Statistic	0.737	Shapiro Wilk Test Statistic			
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.		
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level			
Assuming Normal Distribution		Assuming Lognormal Distribution			
95% Student's-t UCL	605.4	95% H-UCL	6104		
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1069		
95% Adjusted-CLT UCL	617.3	97.5% Chebyshev (MVUE) UCL	1392		
95% Modified-t UCL	612.9	99% Chebyshev (MVUE) UCL	2027		
Gamma Distribution Test		Data Distribution			
k star (bias corrected)	0.5	Data do not follow a Discernable Distribution (0.0	5)		
Theta Star	664.4				
nu star	8.002				
Approximate Chi Square Value (.05)	2.736	Nonparametric Statistics			
Adjusted Level of Significance	0.0195	95% CLT UCL	569.		
Adjusted Chi Square Value	2.021	95% Jackknife UCL	605.		
-		95% Standard Bootstrap UCL	557.		
Anderson-Darling Test Statistic	1.087	95% Bootstrap-t UCL	766.		
Anderson-Darling 5% Critical Value	0.751	95% Hali's Bootstrap UCL	474.		
Kolmogorov-Smirnov Test Statistic	0.365	95% Percentile Bootstrap UCL	570.		
Kolmogorov-Smirnov 5% Critical Value	0.306	95% BCA Bootstrap UCL	594.		
Data not Gamma Distributed at 5% Significance L]	95% Chebyshev(Mean, Sd) UCL	960.		
		97.5% Chebyshev(Mean, Sd) UCL	1233		
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1767		
95% Approximate Gamma UCL	971.8				
95% Adjusted Gamma UCL	1316	·			

Potential UCL to Use	Use 99% Chebyshev (Меал, Sd) UCL 1767						
Recommended UCL exceeds the maximum observation							

ANTIMONY - SOUTH OF MARLIN SURFACE SOIL							
Compound	Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Backgro						
Compound	Mean Standard Deviation Samples Conc. Mean Standard Deviation Samples						
Antimony	1.118	1.228	83	0.953	0.878	10	

Calculated Difference = 0.165 Standard Error of the Difference = 0.407177285

Degree of Freedom = 91

t = 0.405228892

p = 0.3445 calculated at www.stat.tamu.edu/~west/applets/tdemo.html

Data sets significantly different = No background mean is not statistically less than site mean

ARSENIC - SOUTH OF MARLIN SURFACE SOIL							
Compound	Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background						
	Mean Standard Deviation Samples Conc. Mean Standard Deviation Samples						
Arsenic	3.735	4.012	83	3.438	1.792	10	

Calculated Difference = 0.297

Standard Error of the Difference = 1.126036589

Degree of Freedom = 91

t = 0.263756971

0.3963

BARIUM - SOUTH OF MARLIN SURFACE SOIL							
Compound	Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background						
Mean Standard Deviation Samples Conc. Mean Standard Deviation Samples							
Barium	345.2	349	83	333.1	288.1	10	

Calculated Difference = 12.1

Standard Error of the Difference = 124.3580544

Degree of Freedom = 91

t = 0.097299689

0.4614

CADMIUM - SOUTH OF MARLIN SURFACE SOIL							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background							
•	Mean Standard Deviation Samples Conc. Mean Standard Deviation Samples						
Cadmium	0.464	1.141	83	0.0311	0.0398	10	

Calculated Difference = 0.4329 Standard Error of the Difference = 0.277019204

Degree of Freedom = 91

t = 1.562707545

0.0608

CHROMIUM - SOUTH OF MARLIN SURFACE SOIL							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background							
	Mean Standard Deviation Samples Conc. Mean Standard Deviation Samples						
Chromium	16.08	15.7	83	15.2	3.02	10	

Calculated Difference = 0.88

Standard Error of the Difference = 3.925742193

Degree of Freedom = 91

t = 0.224161434

0.4116

COPPER - SOUTH OF MARLIN SURFACE SOIL							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Backgro							
Mean Standard Deviation Samples Conc. Mean Standard Deviation Samples						Samples	
Copper	27.98	35.35	83	12.12	3.955	10	

Calculated Difference = 15.86 Standard Error of the Difference = 8.664375822

> Degree of Freedom = 91

t = 1.830483849

0.0353

LEAD - SOUTH OF MARLIN SURFACE SOIL							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background							
Compound	Mean Standard Deviation Samples Conc. Mean Standard Deviation Samples						
Lead	69.61	112.8	83	13.43	1.547	10	

Calculated Difference = 56.18

Standard Error of the Difference = 27.36239203

Degree of Freedom = 91

t = 2.053183068

0.0215

LITHIUM - SOUTH OF MARLIN SURFACE SOIL							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background							
	l Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Lithium	7.856	5.715	83	21.14	5.166	10	

Calculated Difference = 13.284 Standard Error of the Difference = 2.142429492

> Degree of Freedom = 91

t = 6.200437423

0.00 p =

MANGANESE - SOUTH OF MARLIN SURFACE SOIL							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number							
Mean Standard Deviation Samples Conc. Mean Standard Deviation Sam						Samples	
Manganese	257.4	129.3	83	377.4	93.75	10	

Calculated Difference = 120

Standard Error of the Difference = 43.15491673

Degree of Freedom = 91

t = 2.780679679

0.0033

MERCURY - SOUTH OF MARLIN SURFACE SOIL							
Compound	Background Conc.	Number of Background					
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Mercury	0.0227	0.0752	83	0.0213	0.00479	10	

Calculated Difference = 0.0014 Standard Error of the Difference = 0.01830147 Degree of Freedom = 91

t = 0.076496585

0.4698

MOLYBDENUM - SOUTH OF MARLIN SURFACE SOIL							
Compound	Background Conc.	Number of Background					
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Molybdenum	1.306	1.588	83	0.522	0.0739	10	

Calculated Difference = 0.784 Standard Error of the Difference = 0.385854899

> Degree of Freedom = 91

t = 2.031851873

0.0225

ZINC - SOUTH OF MARLIN SURFACE SOIL							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background							
	Mean Standard Deviation Samples Conc. Mean Standard Deviation Samples						
Zinc	601.2	672.8	83	247	364.6	10	

Calculated Difference = 354.2

Standard Error of the Difference = 199.8008143

Degree of Freedom = 91

t = 1.772765547

0.0399

ANTIMONY - SOUTH OF MARLIN SOIL							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background							
Mean Standard Deviation Samples Conc. Mean Standard Deviation Samples						Samples	
Antimony	1.023	1.14	166	0.953	0.878	10	

Calculated Difference = 0.07

Standard Error of the Difference = 0.39183601

Degree of Freedom = 174

t = 0.178646164

p = 0.4292 calculated at www.stat.tamu.edu/~west/applets/tdemo.html

Data sets significantly different = No background mean is not statistically less than site mean

ARSENIC - SOUTH OF MARLIN SOIL									
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background									
•	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples			
Arsenic									

Calculated Difference = 0.107

Standard Error of the Difference = 0.97454393

Degree of Freedom = 174

t = 0.109794948

0.4563

calculated at www.stat.tamu.edu/~west/applets/tdemo.html site soil mean is not statistically less than background mean

Data sets significantly different = No

BARIUM - SOUTH OF MARLIN SOIL								
Compound	Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background							
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples		
Barium	237.4	274.8	166	333.1	288.1	10		

Calculated Difference = 95.7

Standard Error of the Difference = 112.8814519

Degree of Freedom = 174

t = 0.847792072

0.1989

calculated at www.stat.tamu.edu/~west/applets/tdemo.html site soil mean is not statistically less than background mean

Data sets significantly different = No

CADMIUM - SOUTH OF MARLIN SOIL							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Backgro							
Mean Standard Deviation Samples Conc. Mean Standard Deviation Samples						Samples	
Cadmium	0.335	0.859	166	0.0311	0.0398	10	

Calculated Difference = 0.3039 Standard Error of the Difference = 0.208717917

> Degree of Freedom = 174

t = 1.456032165

0.0736

CHROMIUM - SOUTH OF MARLIN SOIL							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
·	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Chromium	13.53	12.49	166	15.2	3.02	10	

Calculated Difference = 1.67

Standard Error of the Difference = 3.176242508

Degree of Freedom = 174

t = 0.525778493

0.2998

COPPER - SOUTH OF MARLIN SOIL							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background							
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Copper	24.26	46.76	166	12.12	3.955	10	

Calculated Difference = 12.14

Standard Error of the Difference = 11.40971991

Degree of Freedom = 174

t = 1.064005085

0.1444

LEAD - SOUTH OF MARLIN SOIL						
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples
Lead	53.52	104.2	166	13.43	1.547	10

Calculated Difference = 40.09

Standard Error of the Difference = 25.27694655

Degree of Freedom = 174

t = 1.586030177

0.0573

LITHIUM - SOUTH OF MARLIN SOIL						
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background
•	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples
Lithium	10.03	6.299	166	21.14	5.166	10

Calculated Difference = 11.11

Standard Error of the Difference = 2.236676187

Degree of Freedom = 174

t = 4.967191972

0.00 p =

MANGANESE - SOUTH OF MARLIN SOIL							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Back							
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Manganese	261.2	127.4	166	377.4	93.75	10	

Calculated Difference = 116.2

Standard Error of the Difference = 42.82121949

Degree of Freedom = 174

t = 2.713607912

0.0037

MERCURY - SOUTH OF MARLIN SOIL							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
•	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Mercury	0.0262	0.0941	166	0.0213	0.00479	10	

Calculated Difference = 0.0049 Standard Error of the Difference = 0.022872813

Degree of Freedom = 174

t = 0.214228129

0.4153

MOLYBDENUM - SOUTH OF MARLIN SOIL							
I Compound						Number of Background	
•	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Molybdenum	0.89	1.488	166	0.522	0.0739	10	

Calculated Difference = 0.368

Standard Error of the Difference = 0.361648843

Degree of Freedom = 174

t = 1.017561668

0.1550

ZINC - SOUTH OF MARLIN SOIL							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Zinc	433.8	786.8	166	247	364.6	10	

Calculated Difference = 186.8 Standard Error of the Difference = 222.9535182

Degree of Freedom = 174

0.8378428

0.2016 p =

ANTIMONY - NORTH OF MARLIN SURFACE SOIL							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Back							
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Antimony	1.744	2.146	18	0.953	0.878	10	

Calculated Difference = 0.791

Standard Error of the Difference = 0.589906214 Degree of Freedom = 26

t = 1.340891114

0.0958

ARSENIC - NORTH OF MARLIN SURFACE SOIL							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Arsenic	2.522	1.164	18	3.438	1.792	10	

Calculated Difference = 0.916

Standard Error of the Difference = 0.633108336

Degree of Freedom = 26

t = 1.446829789

0.0799

BARIUM - NORTH OF MARLIN SURFACE SOIL							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background							
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Barium	145.2	115.8	18	333.1	288.1	10	

Calculated Difference = 187.9

Standard Error of the Difference = 95.33605484

Degree of Freedom = 26

t = 1.970922756

0.0297

CADMIUM - NORTH OF MARLIN SURFACE SOIL							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Cadmium	0.207	0.252	18	0.0311	0.0398	10	

Calculated Difference = 0.1759 Standard Error of the Difference = 0.06240139

> Degree of Freedom = 26

t = 2.818847487

0.0045 p =

CHROMIUM - NORTH OF MARLIN SURFACE SOIL									
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background									
•	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples			
Chromium									

Calculated Difference = 5.06

Standard Error of the Difference = 6.7569619 Degree of Freedom = 26

t = 0.748857264

0.2303

COPPER - NORTH OF MARLIN SURFACE SOIL							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background							
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Copper	24.13	44.66	18	12.12	3.955	10	

Calculated Difference = 12.01

Standard Error of the Difference = 10.90360718

Degree of Freedom = 26

t = 1.101470348

0.1405

LEAD - NORTH OF MARLIN SURFACE SOIL						
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background						
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples
Lead	57.7	111.1	18	13.43	1.547	10

Calculated Difference = 44.27

Standard Error of the Difference = 26.95014837

Degree of Freedom = 26

t = 1.64266257

0.0562

LITHIUM - NORTH OF MARLIN SURFACE SOIL							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Lithium	16.57	5.136	18	21.14	5.166	10	

Calculated Difference = 4.57

Standard Error of the Difference = 2.054368963

Degree of Freedom = 26

t = 2.224527377

0.0175

MANGANESE - NORTH OF MARLIN SURFACE SOIL							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
- Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Manganese	369.5	247.7	18	377.4	93.75	10	

Calculated Difference = 7.9

Standard Error of the Difference = 66.99284257

Degree of Freedom = 26

t = 0.117923045

0.4535

MERCURY - NORTH OF MARLIN SURFACE SOIL							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Mercury	0.0126	0.0163	18	0.0213	0.00479	10	

Calculated Difference = 0.0087 Standard Error of the Difference = 0.004233584

Degree of Freedom = 26

t = 2.054996426

calculated at www.stat.tamu.edu/~west/applets/tdemo.html site soil mean is statistically less than background mean 0.0250

Data sets significantly different = Yes

MOLYBDENUM - NORTH OF MARLIN SURFACE SOIL							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Molybdenum	0.949	2.5	18	0.522	0.0739	10	

Calculated Difference = 0.427 Standard Error of the Difference = 0.606789238

> Degree of Freedom = 26

t = 0.703703977

0.2439

ZINC - NORTH OF MARLIN SURFACE SOIL							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background							
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Zinc	418.4	1308	18	247	364.6	10	

Calculated Difference = 171.4

Standard Error of the Difference = 337.5387012

Degree of Freedom = 26

t = 0.507793623

0.3080

ANTIMONY - NORTH OF MARLIN SOIL								
Compound	Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background							
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples		
Antimony	1.416	1.779	36	0.953	0.878	10		

Calculated Difference = 0.463

Standard Error of the Difference = 0.513084318

Degree of Freedom = 44

t = 0.902385794

0.1859

ARSENIC - NORTH OF MARLIN SOIL							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Jompouna	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Arsenic	2.573	1.369	36	3.438	1.792	10	

Calculated Difference = 0.865

Standard Error of the Difference = 0.656788524

Degree of Freedom = 44

t = 1.317014486

0.0973

calculated at www.stat.tamu.edu/~west/applets/tdemo.html site soil mean is not statistically less than background mean

Data sets significantly different = No

BARIUM - NORTH OF MARLIN SOIL							
Compound	Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background						
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Barium	142.1	95.9	36	333.1	288.1	10	

Calculated Difference = 191

Standard Error of the Difference = 94.02738869

Degree of Freedom = 44

t = 2.031323029

0.0242 p =

CADMIUM - NORTH OF MARLIN SOIL							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background							
·	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Cadmium	0.193	0.239	36	0.0311	0.0398	10	

Calculated Difference = 0.1619 Standard Error of the Difference = 0.059316632

Degree of Freedom = 44

t = 2.729419974

0.0045

CHROMIUM - NORTH OF MARLIN SOIL							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background							
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Chromium	17.17	19.6	36	15.2	3.02	10	

Calculated Difference = 1.97

Standard Error of the Difference = 4.848678898

Degree of Freedom = 44

t = 0.406296239

0.3432

COPPER - NORTH OF MARLIN SOIL							
Compound Site Conc. Samples Samples Samples Samples Samples							
MeanStandard DeviationSamplesConc. MeanStandard DeviationSamplesCopper18.731.93612.123.95510							

Calculated Difference = 6.58

Standard Error of the Difference = 7.837321881

Degree of Freedom = 44

t = 0.83957251

0.2028

LEAD - NORTH OF MARLIN SOIL								
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background								
oopoua	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples		
Lead								

Calculated Difference = 24.37 Standard Error of the Difference = 19.6490511

Degree of Freedom = 44

t = 1.240263455

0.1108

LITHIUM - NORTH OF MARLIN SOIL							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of E							
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Lithium	18.84	5.952	36	21.14	5.166	10	

Calculated Difference = 2.3

Standard Error of the Difference = 2.180058677

Degree of Freedom = 44

t = 1.055017475

0.1486

MANGANESE - NORTH OF MARLIN SOIL								
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background								
•	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples		
Manganese								

Calculated Difference = 30.4

Standard Error of the Difference = 57.70014591

Degree of Freedom = 44

t = 0.526861753

0.3005

MERCURY - NORTH OF MARLIN SOIL							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Bac							
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Mercury	0.0094	0.0124	36	0.0213	0.00479	10	

Calculated Difference = 0.0119 Standard Error of the Difference = 0.00336736

Degree of Freedom = 44

t = 3.533925295

calculated at www.stat.tamu.edu/~west/applets/tdemo.html site soil mean is statistically less than background mean 0.0005 p =

Data sets significantly different = Yes

MOLYBDENUM - NORTH OF MARLIN SOIL							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of I							
o mpound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Molybdenum	0.586	1.788	36	0.522	0.0739	10	

Calculated Difference = 0.064

Standard Error of the Difference = 0.434282915

Degree of Freedom = 44

t = 0.147369371

0.4417

ZINC - NORTH OF MARLIN SOIL							
Compound Site Conc. Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background Samples Samples							
MeanStandard DeviationSamplesConc. MeanStandard DeviationSamplesZinc242.5929.436247364.610							

Calculated Difference = 4.5

Standard Error of the Difference = 253.1879948

Degree of Freedom = 44

t = 0.017773355

0.4929

ZINC - INTRACOASTAL WATERWAY SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Zinc	45.36	19.88	16	36.04	13.68	9	

Calculated Difference = 9.32

Standard Error of the Difference = 6.477819531

Degree of Freedom = 23

t = 1.438755735

0.0818

4,4'-DDT - INTRACOASTAL WATERWAY SEDIMENT								
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background		
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples		
4,4'-DDT								

Calculated Difference = 0.00025553 Standard Error of the Difference = 0.000199284

> Degree of Freedom = 24

> > t = 1.28223903

p = 0.106

ALUMINUM - INTRACOASTAL WATERWAY SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
- Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Aluminum	6854	2346	16	12213	6892	9	

Calculated Difference = 5359
Standard Error of the Difference = 2252.49071

Degree of Freedom = 23

t = 2.379144107

p = 0.013 calculated at www.stat.tamu.edu/~west/applets/tdemo.html

Data sets significantly different = Yes site soil mean is statistically less than background mean

ANTIMONY - INTRACOASTAL WATERWAY SEDIMENT								
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background								
·	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples		
Antimony								

Calculated Difference = 1.778

Standard Error of the Difference = 0.819130942

Degree of Freedom = 23

t = 2.170593136

p = 0.0203 calculated at www.stat.tamu.edu/~west/applets/tdemo.html

Data sets significantly different = Yes site soil mean is statistically less than background mean

ARSENIC - INTRACOASTAL WATERWAY SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Arsenic	4.026	1.4	16	5.813	3.107	9	

Standard Error of the Difference = 1.039537887

Degree of Freedom = 23

t = 1.719033066

p = 0.0495 calculated at www.stat.tamu.edu/~west/applets/tdemo.html

Data sets significantly different = Yes site soil mean is statistically less than background mean

BARIUM - INTRACOASTAL WATERWAY SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Barium	215.3	59.65	16	209.7	47.73	9	

Standard Error of the Difference = 20.90733397

Degree of Freedom = 23

t = 0.267848594

0.3956 p =

BENZO(B)FLUORANTHENE - INTRACOASTAL WATERWAY SEDIMENT						
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background
•	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples
Benzo(b)fluoranthene	0.1	0.157	16	0.0087	0.0106	9

Calculated Difference = 0.0913 Standard Error of the Difference = 0.038225347

> Degree of Freedom = 23

> > t = 2.388467508

p = 0.5

BERYLLIUM - INTRACOASTAL WATERWAY SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Beryllium	0.463	0.149	16	0.766	0.403	9	

Standard Error of the Difference = 0.13246449

Degree of Freedom = 23

t = 2.287405473

0.0159 p =

calculated at www.stat.tamu.edu/~west/applets/tdemo.html

Data sets significantly different = site soil mean is statistically less than background mean Yes

BORON - INTRACOASTAL WATERWAY SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Jompouna	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Boron	12.04	9.92	16	27.64	12.82	9	

Calculated Difference = 15.6 Standard Error of the Difference = 4.714218044

Degree of Freedom = 23

t = 3.30913841

0.0015 calculated at www.stat.tamu.edu/~west/applets/tdemo.html p =

Data sets significantly different = site soil mean is statistically less than background mean Yes

COBALT - INTRACOASTAL WATERWAY SEDIMENT						
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples
Cobalt	4.385	1.131	16	6.698	3.165	9

Standard Error of the Difference = 1.037770333

Degree of Freedom = 23

t = 2.228816845

0.0179 p =

calculated at www.stat.tamu.edu/~west/applets/tdemo.html

Data sets significantly different = site soil mean is statistically less than background mean Yes

COPPER - INTRACOASTAL WATERWAY SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Copper	7.112	2.997	16	8.138	5.165	9	

Standard Error of the Difference = 1.787757246

Degree of Freedom = 23

t = 0.573903421

0.2858 p =

calculated at www.stat.tamu.edu/~west/applets/tdemo.html Data sets significantly different = site soil mean is not statistically less than background mean No

IRON - INTRACOASTAL WATERWAY SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Iron	13352	5546	16	16496	8097	9	

Standard Error of the Difference = 2892.307356

Degree of Freedom = 23

t = 1.087021403

p = 0.1441 calculated at www.stat.tamu.edu/~west/applets/tdemo.html

Data sets significantly different = No site soil mean is not statistically less than background mean

LEAD - INTRACOASTAL WATERWAY SEDIMENT						
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples
Lead	11.56	7.161	16	9.587	3.602	9

Standard Error of the Difference = 2.076994545

Degree of Freedom = 23

t = 0.949930275

p = 0.1760

LITHIUM - INTRACOASTAL WATERWAY SEDIMENT						
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples
Lithium	10.53	3.559	16	21.4	14.41	9

Standard Error of the Difference = 4.637876359

Degree of Freedom = 23

t = 2.343745102

calculated at www.stat.tamu.edu/~west/applets/tdemo.html site soil mean is statistically less than background mean 0.0141

Data sets significantly different = Yes

MANGANESE - INTRACOASTAL WATERWAY SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Manganese	283.3	87.59	16	330.7	88.99	9	

Standard Error of the Difference = 35.25927685

Degree of Freedom = 23

t = 1.34432706

0.0960

MERCURY - INTRACOASTAL WATERWAY SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Mercury	0.0201	0.0073	16	0.0176	0.0132	9	

Standard Error of the Difference = 0.004534171

Degree of Freedom = 23

t = 0.551368717

0.5000

MOLYBDENUM - INTRACOASTAL WATERWAY SEDIMENT								
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background		
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples		
Molybdenum								

Standard Error of the Difference = 0.330054329

Degree of Freedom = 23

t = 1.290696598

0.1048

NICKEL - INTRACOASTAL WATERWAY SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Nickel	9.589	2.741	16	14.91	8.111	9	

Standard Error of the Difference = 2.649675082

Degree of Freedom = 23

t = 2.008170751

calculated at www.stat.tamu.edu/~west/applets/tdemo.html site soil mean is not statistically less than background mean 0.5000

Data sets significantly different = No

STRONTIUM - INTRACOASTAL WATERWAY SEDIMENT								
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background		
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples		
Strontium								

Standard Error of the Difference = 7.804670623

Degree of Freedom = 23

t = 1.833517478

0.0398

TITANIUM - INTRACOASTAL WATERWAY SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Titanium	25.58	5.051	16	31.79	10.49	9	

Standard Error of the Difference = 3.536205768

Degree of Freedom = 23

t = 1.756119527

0.0462

VANADIUM - INTRACOASTAL WATERWAY SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Vanadium	13.86	3.523	16	20.21	9.135	9	

Standard Error of the Difference = 3.012459534

Degree of Freedom = 23

t = 2.107912133

0.0231

ANTIMONY - WETLAND SEDIMENT									
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background Conc.									
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples			
Antimony									

Standard Error of the Difference = 0.32851527

Degree of Freedom = 55

t = 0.611843706

0.2716

ARSENIC - WETLAND SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Arsenic	2.534	2.465	48	3.438	1.792	10	

Standard Error of the Difference = 0.823742314

Degree of Freedom = 56

t = 1.097430573

0.1387

calculated at www.stat.tamu.edu/~west/applets/tdemo.html site soil mean is not statistically less than background mean

Data sets significantly different = No

BARIUM - WETLAND SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Barium	151.7	136.5	48	333.1	288.1	10	

Standard Error of the Difference = 96.93387285

Degree of Freedom = 56

t = 1.871378855

0.0333

CADMIUM - WETLAND SEDIMENT										
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background										
•	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples				
Cadmium	0.103									

Calculated Difference = 0.0719 Standard Error of the Difference = 0.037580399

> Degree of Freedom = 56

t = 1.913231441

0.0304 p =

CHROMIUM - WETLAND SEDIMENT							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background Standard Deviation Samples Conc. Mean Standard Deviation Samples							
Chromium	15.07	5.536	Samples 48	15.2	3.02	Samples 10	
Chromium	15.07	5.536	40	15.2	3.02	10	

Standard Error of the Difference = 1.647671726

Degree of Freedom = 56

t = 0.078899211

0.4687

COPPER - WETLAND SEDIMENT							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background Conc.							
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Copper	14.49	8.49	48	12.12	3.955	10	

Standard Error of the Difference = 2.409192475

Degree of Freedom = 56

t = 0.983732111

0.1647

LEAD - WETLAND SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Lead	25.36	34.13	48	13.43	1.547	10	

Standard Error of the Difference = 8.292183972

Degree of Freedom = 56

t = 1.438704211

0.0779

LITHIUM - WETLAND SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Lithium	18.65	3.754	48	21.14	5.166	10	

Standard Error of the Difference = 1.870221145

Degree of Freedom = 56

t = 1.331393353

0.0943

MANGANESE - WETLAND SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
•	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Manganese	331.8	205.9	48	377.4	93.75	10	

Standard Error of the Difference = 58.07511173

Degree of Freedom = 56

t = 0.785190052

0.2178

MERCURY - WETLAND SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Mercury	0.0199	0.0194	48	0.0213	0.00479	10	

Calculated Difference = 0.0014 Standard Error of the Difference = 0.004942998

> Degree of Freedom = 56

t = 0.283228898

0.3890

MOLYBDENUM - WETLAND SEDIMENT							
						Number of Background	
•	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Molybdenum	0.581	0.677	48	0.522	0.0739	10	

Standard Error of the Difference = 0.16585129

Degree of Freedom = 56

t = 0.355740374

0.3617

ZINC - WETLAND SEDIMENT							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Back							
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Zinc	139.1	160.9	53	247	364.6	10	

Standard Error of the Difference = 121.7217613

Degree of Freedom = 61

t = 0.886447902

0.1896

calculated at www.stat.tamu.edu/~west/applets/tdemo.html site soil mean is not statistically less than background mean

Data sets significantly different = No

ANTIMONY - POND SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Antimony	0.795	0.618	8	0.953	0.878	10	

Standard Error of the Difference = 0.31552261

Degree of Freedom = 16

t = 0.500756506

0.3116

calculated at www.stat.tamu.edu/~west/applets/tdemo.html site soil mean is not statistically less than background mean

Data sets significantly different = No

ARSENIC - POND SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Arsenic	1.735	2.233	8	3.438	1.792	10	

Standard Error of the Difference = 0.783860649

Degree of Freedom = 16

t = 2.172580039

0.0226

BARIUM - POND SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Barium	198.6	119.4	8	333.1	288.1	10	

Standard Error of the Difference = 95.59691633

Degree of Freedom = 16

t = 1.406949148

0.0893

CADMIUM - POND SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
•	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Cadmium	0.147	0.112	8	0.0311	0.0398	10	

Calculated Difference = 0.1159 Standard Error of the Difference = 0.029938042

> Degree of Freedom = 16

t = 3.871328672

0.0007 p =

CHROMIUM - POND SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Chromium	12.93	4.611	8	15.2	3.02	10	

Standard Error of the Difference = 1.470614137

Degree of Freedom = 16

t = 1.543572812

0.0711

COPPER - POND SEDIMENT							
Lompound						Number of Background	
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Copper	15.2	7.421	8	12.12	3.955	10	

Standard Error of the Difference = 2.191731568

Degree of Freedom = 16

t = 1.40528158

0.0896

LEAD - POND SEDIMENT							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Back							
•	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Lead	17.54	7.076	8	13.43	1.547	10	

Standard Error of the Difference = 1.784545276

Degree of Freedom = 16

t = 2.303107719

0.0175

LITHIUM - POND SEDIMENT						
Compound	Site Conc.	Site Conc.	Number of Site	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background
	Mean	Standard Deviation	Samples			Samples
Lithium	18.48	4.071	8	21.14	5.166	10

Calculated Difference = 2.66

Standard Error of the Difference = 1.908832199

Degree of Freedom = 16

t = 1.393522176

0.0912

calculated at www.stat.tamu.edu/~west/applets/tdemo.html site soil mean is not statistically less than background mean

Data sets significantly different = No

MANGANESE - POND SEDIMENT						
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples
Manganese	487.6	124.2	8	377.4	93.75	10

Calculated Difference = 110.2

Standard Error of the Difference = 42.26460503

Degree of Freedom = 16

t = 2.607382701

0.0095

calculated at www.stat.tamu.edu/~west/applets/tdemo.html site surface soil mean is statistically greater than background mean Data sets significantly different = Yes

MOLYBDENUM - POND SEDIMENT						
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background
•	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples
Molybdenum	0.146	0.191	8	0.522	0.0739	10

Calculated Difference = 0.376

Standard Error of the Difference = 0.051885086

Degree of Freedom = 16

t = 7.24678375

0.0000 p =

calculated at www.stat.tamu.edu/~west/applets/tdemo.html site soil mean is statistically less than background mean Data sets significantly different = Yes

ZINC - POND SEDIMENT						
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background
- Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples
Zinc	332.3	407.7	8	247	364.6	10

Calculated Difference = 85.3

Standard Error of the Difference = 151.8911495

Degree of Freedom = 16

t = 0.561586375

0.2910

calculated at www.stat.tamu.edu/~west/applets/tdemo.html site soil mean is not statistically greater than background mean Data sets significantly different = No

APPENDIX C

INTAKE CALCULATIONS

TABLE C-1
EXPOSURE POINT CONCENTATION (mg/kg) FOR COPCs
SOIL SOUTH OF MARLIN AVE.

Parameter	Average	95% UCL	Statistic Used
4,4-DDD	0.00766	0.0498	97.5% Chebyshev
Aluminum	6452	6914	95% Student's-t
Aroclor-1254	0.205	0.74	97.5% Chebyshev
Benzo(a)anthracene	0.268	0.859	99% Chebyshev
Benzo(a)pyrene	0.347	1.008	99% Chebyshev
Benzo(b)fluoranthene	0.466	1.256	99% Chebyshev
Benzo(k)fluoranthene	0.157	0.378	97.5% Chebyshev
Dibenz(a,h)anthracene	0.113	0.236	97.5% Chebyshev
Dieldrin	0.00090075	0.0021	97.5% Chebyshev
Indeno(1,2,3-cd)pyrene	0.368	0.761	97.5% Chebyshev
Iron	14277	17453	95% Chebyshev
Isopropylbenzene (cumene)	0.831	8.618	99% Chebyshev
Lead	53.52	104	97.5% Chebyshev
Napthalene	0.323	2.775	99% Chebyshev

TABLE C-2
EXPOSURE POINT CONCENTATION (mg/kg) FOR COPCS
SURFACE SOIL SOUTH OF MARLIN AVE.

Parameter	Average	95% UCL	Statistic Used
4,4-DDD	0.0007894	0.0029	97.5% Chebyshev
Aluminum	5335	5946	95% Student's-t
Aroclor-1254	0.137	0.726	97.5% Chebyshev
Benzo(a)anthracene	0.345	1.211	99% Chebyshev
Benzo(a)pyrene	0.457	1.457	99% Chebyshev
Benzo(b)fluoranthene	0.582	1.638	95% H-UCL
Benzo(k)fluoranthene	0.24	0.651	97.5% Chebyshev
Dibenz(a,h)anthracene	0.155	0.363	97.5% Chebyshev
Dieldrin	0.000997	0.003	97.5% Chebyshev
Indeno(1,2,3-cd)pyrene	0.47	1.115	97.5% Chebyshev
Iron	16285	17845	95% H-UCL
Isopropylbenzene (cumene)			
Lead	- 69.61	84.5	95% H-UCL
Napthalene			

TABLE C-3 INTAKE CALCULATIONS FOR SOIL SOUTH OF MARLIN AVERAGE – YOUTH TRESPASSER

MTAKE - 10- * ID	* EF * ED * CF) / (BW * AT)				
IN I AKE = (50 - IK	(FEF ED CF) / (BW AI)			•	
Parameter	Definition			Value	Reference
Intake Sc	Intake of chemical (mg/kg-day) Soil concentration (mg/kg)			calculated	
Ac	Air concentration (mg/m^3)			see data page see below	`
EAC	Effective air concentration (mg/m ²)	21		calculated	
PEF	Particulate Emission Factor (m/3/k			1.00E+09	EPA, 2004a
IR	ingestion rate of soil (mg/day)	9)		100	TNRCC, 1998
SA	Skin surface area (cm2)			3500	TNRCC, 1998
AF	Soil to skin adherence factor (mg/c	:m2)		0.1	TNRCC, 1998
ABSd	Dermal absorption fraction (unitles			see chemprop page	
EF	Exposure frequency (day/yr)	•		25	professional judgment
ED	Exposure duration (yr)			6	professional judgment
CF	Conversion factor (kg/mg)			1.00E-06	EPA, 1989
BW	Body weight (kg)			40	EPA, 1991a
ATc	Averaging time for carcinogens (da			25550	EPA, 1989
ATnc	Averaging time for noncarcinogens	(days)		9125	EPA, 1989
				<u>.</u>	
			Sc	intake for	intake for
Chemical				Carcinogens	Noncarcinogens
4,4-DDD			7.66E-03	1.12E-10	3.15E-10
Aluminum			6.45E+03	9,47E-05	2.65E-04
Aroclor-1254			2.05E-01	3.01E-09	8.42E-09
Benzo(a)anthracer	ne		2.68E-01	3,93E-09	1.10E-08
Benzo(a)pyrene			3.47E-01	5.09E-09	1.43E-08
Benzo(b)fluoranthe			4.66E-01	6.84E-09	1.92E-08
Benzo(k)fluoranthe			1.57E-01	2.30E-09	6.45E-09
Dibenz(a,h)anthrad	cene		1.13E-01	1.66E-09	4.64E-09
Dieldrin			9.01E-04	1.32E-11	3.70E-11
Indeno(1,2,3-cd)py	rene		3.68E-01	5.40E-09	1.51E-08
iron	(aumana)		1.43E+04	2.10E-04	5.87E-04
lsopropylbenzene (Lead	(cumene)		8.31E-01	1.22E-08 7.86E-07	3.42E-08
Lead Napthalene			5,35E+01 3,23E-01	7.86E-07 4.74E-09	2.20E-06 1.33E-08
Паршально			0.202-01	4.742-03	1.002-00
NTAKE = (Sc * SA	A * AF * ABSd * EF * ED * CF) / (BW * /	ÀT)			
	4 * AF * ABSd * EF * ED * CF) / (BW * /	AT) ABSd	Sc	Intake for	Intake for
INTAKE = (Sc * SA	4 * AF * ABSd * EF * ED * CF) / (BW * /	<u> </u>	Sc	Intake for Carcinogens	Intake for Noncarcinogens
Chemical	4 * AF * ABSd * EF * ED * CF) / (BW * /	<u> </u>	Sc 7.66E-03		
Chemical 4,4-DDD	4 * AF * ABSd * EF * ED * CF) / (BW * /	ABSd		Carcinogens	Noncarcinogens
Chemical 4,4-DDD Aluminum Aroclor-1254		ABSd 1.30E-01	7.66E-03	Carcinogens 5.12E-11	Noncarcinogens 1.43E-10
Chemical 4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracer		1.30E-01 1.00E-02 1.40E-01 1.30E-01	7.66E-03 6.45E+03 2.05E-01 2.68E-01	Carcinogens 5.12E-11 3.31E-06 1.47E-09 1.79E-09	Noncarcinogens 1.43E-10 9.28E-06
Chemical 4,4-DDD Alumlnum Aroclor-1254 Benzo(a)anthracer Benzo(a)pyrene	18	ABSd 1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01	7.66E-03 6.45E+03 2.05E-01 2.68E-01 3.47E-01	5.12E-11 3.31E-06 1.47E-09 1.79E-09 2.32E-09	Noncarcinogens 1.43E-10 9.28E-06 4.13E-09 5.01E-09 6.49E-09
Chemical 4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracer Benzo(b)fluoranthe	ne ene	ABSd 1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01	7.66E-03 6.45E+03 2.05E-01 2.68E-01 3.47E-01 4.66E-01	5.12E-11 3.31E-06 1.47E-09 1.79E-09 2.32E-09 3.11E-09	1.43E-10 9.28E-06 4.13E-09 5.01E-09 6.49E-09 8.71E-09
Chemical 4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracer Benzo(a)pyrene Benzo(b)fluoranthe Benzo(k)fluoranthe	ne ene ene	1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01	7.66E-03 6.45E+03 2.05E-01 2.68E-01 3.47E-01 4.66E-01 1.57E-01	5.12E-11 3.31E-06 1.47E-09 1.79E-09 2.32E-09 3.11E-09 1.05E-09	Noncarcinogens 1.43E-10 9.28E-06 4.13E-09 5.01E-09 6.49E-09 8.71E-09 2.94E-09
Chemical 4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracer Benzo(b)fluoranthe Benzo(k)fluoranthe Dibenz(a,h)anthrac	ne ene ene	1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01	7.66E-03 6.45E+03 2.05E-01 2.68E-01 3.47E-01 4.66E-01 1.57E-01 1.13E-01	5.12E-11 3.31E-06 1.47E-09 1.79E-09 2.32E-09 3.11E-09 1.05E-09 7.55E-10	1.43E-10 9.28E-06 4.13E-09 5.01E-09 6.49E-09 8.71E-09 2.94E-09 2.11E-09
Chemical 4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracor Benzo(a)pyrene Benzo(b)fluoranthe Benzo(k)fluoranthe Dibenz(a,h)anthraco	ne ene ene cene	1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01	7.66E-03 6.45E+03 2.05E-01 2.6BE-01 3.47E-01 4.66E-01 1.57E-01 1.13E-01 9.01E-04	5.12E-11 3.31E-06 1.47E-09 1.79E-09 2.32E-09 3.11E-09 1.05E-09 7.55E-10 6.02E-12	Noncarcinogens 1.43E-10 9.28E-06 4.13E-09 5.01E-09 6.49E-09 8.71E-09 2.94E-09 1.68E-11
Chemical 4.4-DDD Aluminum Arocior-1254 Benzo(a)anthracer Benzo(a)pyrene Benzo(b)fluoranthe Benzo(k)fluoranthe Dibenz(a,h)anthrac Dibenz(a,c)anthracor Dieldrin Indeno(1,2,3-cd)py	ne ene ene cene	1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01	7.66E-03 6.45E+03 2.05E-01 2.68E-01 3.47E-01 4.66E-01 1.57E-01 1.13E-01 9.01E-04 3.68E-01	5.12E-11 3.31E-06 1.47E-09 1.79E-09 2.32E-09 3.11E-09 1.05E-09 7.55E-10 6.02E-12 2.46E-09	Noncarcinogens 1.43E-10 9.28E-06 4.13E-09 5.01E-09 6.49E-09 8.71E-09 2.94E-09 2.11E-09 1.68E-11 6.88E-09
Chemical 4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracer Benzo(b)fluoranthe Benzo(k)fluoranthe Dibenz(a,h)anthrac Dieldrin Indeno(1,2,3-cd)py Iron	ne ene ene bene vrene	ABSd 1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01	7.66E-03 6.45E+03 2.05E-01 2.6BE-01 3.47E-01 4.66E-01 1.57E-01 1.13E-01 9.01E-04 3.6BE-01 1.43E+04	5.12E-11 3.31E-06 1.47E-09 1.79E-09 2.32E-09 3.11E-09 1.05E-09 7.55E-10 6.02E-12 2.46E-09 7.33E-06	Noncarcinogens 1.43E-10 9.28E-06 4.13E-09 5.01E-09 6.49E-09 8.71E-09 2.94E-09 2.11E-09 1.68E-11 6.88E-09 2.05E-05
Chemical 4,4-DDD Aluminum Arocior-1254 Benzo(a)anthracer Benzo(b)fluoranthe Benzo(k)fluoranthe Dibenz(a,h)anthrac Dieldrin indeno(1,2,3-cd)py Iron Isopropylbenzene (ne ene ene bene vrene	ABSd 1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01	7.66E-03 6.45E+03 2.05E-01 2.68E-01 3.47E-01 4.66E-01 1.57E-01 1.13E-01 9.01E-04 3.68E-01 1.43E+04 6.31E-01	5.12E-11 3.31E-06 1.47E-09 1.79E-09 2.32E-09 3.11E-09 1.05E-09 7.55E-10 6.02E-12 2.46E-09 7.33E-06 5.55E-09	Noncarcinogens 1.43E-10 9.28E-06 4.13E-09 5.01E-09 6.49E-09 8.71E-09 2.94E-09 2.11E-09 1.68E-11 6.88E-09 2.05E-05 1.55E-08
Chemical 4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracer Benzo(a)pyrene Benzo(b)fluoranthe Benzo(k)hluoranthe Dibenz(a,h)anthrac Dibenz(a,h)anthrac Dieldrin Indeno(1,2,3-cd)py Iron Isopropylbenzene (Lead	ne ene ene bene vrene	ABSd 1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01	7.66E-03 6.45E+03 2.05E-01 2.6BE-01 3.47E-01 4.66E-01 1.57E-01 1.13E-01 9.01E-04 3.6BE-01 1.43E+04	5.12E-11 3.31E-06 1.47E-09 1.79E-09 2.32E-09 3.11E-09 1.05E-09 7.55E-10 6.02E-12 2.46E-09 7.33E-06	Noncarcinogens 1.43E-10 9.28E-06 4.13E-09 5.01E-09 6.49E-09 8.71E-09 2.94E-09 2.11E-09 1.68E-11 6.88E-09 2.05E-05
Chemical 4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracer Benzo(b)fluoranthe Benzo(k)fluoranthe Benzo(k)fluoranthe Dieldrin Indeno(1,2,3-cd)py Iron Isopropylbenzene (Lead Napthalene	ne ene cene cene (cumene)	ABSd 1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01	7.66E-03 6.45E+03 2.05E-01 2.68E-01 3.47E-01 4.66E-01 1.57E-01 1.13E-01 9.01E-04 3.68E-01 1.43E+04 8.31E-01 5.35E+01	5.12E-11 3.31E-06 1.47E-09 1.79E-09 2.32E-09 3.11E-09 1.05E-09 7.55E-10 6.02E-12 2.46E-09 7.33E-06 5.55E-09 2.75E-08	Noncarcinogens 1.43E-10 9.28E-06 4.13E-09 5.01E-09 6.49E-09 8.71E-09 2.94E-09 2.11E-09 1.68E-11 6.88E-09 2.05E-05 1.55E-08 7.70E-08
Chemical 4,4-DDD Aluminum Arocior-1254 Benzo(a)anthracer Benzo(a)pyrene Benzo(b)fluoranthe Benzo(b)fluoranthe Dibenz(a,h)anthrac Dieldrin Indeno(1,2,3-cd)py Iron Isopropylbenzene (Lead Napthalene	ne ene ene cene vrene (cumene)	ABSd 1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01	7.66E-03 6.45E+03 2.05E-01 2.68E-01 3.47E-01 4.66E-01 1.57E-01 1.13E-01 9.01E-04 3.68E-01 1.43E+04 8.31E-01 5.35E+01	5.12E-11 3.31E-06 1.47E-09 1.79E-09 2.32E-09 3.11E-09 1.05E-09 7.55E-10 6.02E-12 2.46E-09 7.33E-06 5.55E-09 2.75E-08	Noncarcinogens 1.43E-10 9.28E-06 4.13E-09 5.01E-09 6.49E-09 8.71E-09 2.94E-09 2.11E-09 1.68E-11 6.88E-09 2.05E-05 1.55E-08 7.70E-08
Chemical 4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracer Benzo(a)pyrene Benzo(b)fluoranthe Dibenz(a,h)anthrac Dieldrin Indeno(1,2,3-cd)py Iron Isopropylbenzene (Lead Napthalene INHALATION PATI Ac = Sc * (1/2)	ne ene cene cene (cumene) HWAY	ABSd 1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.00E-02 1.30E-01 1.30E-01	7.66E-03 6.45E+03 2.05E-01 2.68E-01 3.47E-01 4.66E-01 1.57E-01 1.13E-01 9.01E-04 3.68E-01 1.43E+04 8.31E-01 5.35E+01 3.23E-01	5.12E-11 3.31E-06 1.47E-09 1.79E-09 2.32E-09 3.11E-09 1.05E-09 7.55E-10 6.02E-12 2.46E-09 7.33E-06 5.55E-09 2.75E-08	Noncarcinogens 1.43E-10 9.28E-06 4.13E-09 5.01E-09 6.49E-09 8.71E-09 2.94E-09 2.11E-09 1.68E-11 6.88E-09 2.05E-05 1.55E-08 7.70E-08
Chemical 4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracer Benzo(a)pyrene Benzo(b)fluoranthe Dibenz(a,h)anthrac Dieldrin Indeno(1,2,3-cd)py Iron Isopropylbenzene (Lead Napthalene INHALATION PATI Ac = Sc * (1/2)	ne ane ane bene //rene (cumene) HWAY /PEF) F * ED) / AT *for carcinogens,	ABSd 1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.00E-02 1.30E-01 1.30E-01	7.66E-03 6.45E+03 2.05E-01 2.68E-01 3.47E-01 4.66E-01 1.57E-01 1.13E-01 9.01E-04 3.68E-01 1.43E+04 6.31E-01 5.35E+01 3.23E-01	Carcinogens 5.12E-11 3.31E-06 1.47E-09 1.79E-09 2.32E-09 3.11E-09 1.05E-09 7.55E-10 6.02E-12 2.46E-09 7.33E-06 5.55E-09 2.75E-08 2.16E-09	Noncarcinogens 1.43E-10 9.28E-06 4.13E-09 5.01E-09 6.49E-09 8.71E-09 2.94E-09 2.11E-09 1.68E-11 6.88E-09 2.05E-05 1.55E-08 7.70E-08 6.04E-09
Chemical 4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracer Benzo(b)fluoranthe Dibenz(a, h)anthrac Dieldrin Indeno(1,2,3-cd)py Iron Isopropylbenzene (Lead Napthalene INHALATION PATI Ac = Sc* (1/	ne ene ene cene vrene (cumene)	ABSd 1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.00E-02 1.30E-01 1.30E-01	7.66E-03 6.45E+03 2.05E-01 2.68E-01 3.47E-01 4.66E-01 1.57E-01 1.13E-01 9.01E-04 3.68E-01 1.43E+04 8.31E-01 5.35E+01 3.23E-01	Carcinogens 5.12E-11 3.31E-06 1.47E-09 1.79E-09 2.32E-09 3.11E-09 1.05E-09 7.55E-10 6.02E-12 2.46E-09 7.33E-06 5.55E-09 2.75E-08 2.16E-09	Noncarcinogens 1.43E-10 9.28E-06 4.13E-09 5.01E-09 6.49E-09 8.71E-09 2.94E-09 2.11E-09 1.68E-11 6.88E-09 2.05E-05 1.55E-08 7.70E-08
Chemical 4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracer Benzo(a)pyrene Benzo(b)fluoranthe Benzo(b)fluoranthe Dibenz(a, h)anthrac Dibenz(a, h)anthrac Diseldrin Indeno(1,2,3-cd)py Iron Isopropylbenzene (Lead Napthalene INHALATION PATI Ac = Sc* (1/ EAC = (Ac * Ei	ne sane sane sane sane sane sane sane sa	ABSd 1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.00E-02 1.30E-01 1.30E-01	7.66E-03 6.45E+03 2.05E-01 2.68E-01 3.47E-01 4.66E-01 1.57E-01 1.13E-01 9.01E-04 3.68E-01 1.43E+04 6.31E-01 5.35E+01 3.23E-01	Carcinogens 5.12E-11 3.31E-06 1.47E-09 1.79E-09 2.32E-09 3.11E-09 1.05E-09 7.55E-10 6.02E-12 2.46E-09 7.33E-06 5.55E-09 2.75E-08 2.16E-09	Noncarcinogens 1.43E-10 9.28E-06 4.13E-09 5.01E-09 6.49E-09 8.71E-09 2.94E-09 2.11E-09 1.68E-11 6.88E-09 2.05E-05 1.55E-06 7.70E-08 6.04E-09
Chemical 4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracer Benzo(a)pyrene Benzo(a)pyrene Benzo(k)iluoranthe Benzo(k)iluoranthe Dibenz(a,h)anthrac Dibenz(a,h)anthrac Dibenz(a,h)anthrac Dieldrin Indeno(1,2,3-cd)py Iron Isopropylbenzene (Lead Napthalene INHALATION PATI Ac = Sc* (1/ EAC = (Ac * Ei Chemical 4,4-DDD	ne ane one opene or opene (cumene) HWAY (PEF) F * ED) / AT * for carcinogens, So 7.89E-04	ABSd 1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.00E-02 1.30E-01 1.30E-01	7.66E-03 6.45E+03 2.05E-01 2.68E-01 3.47E-01 4.66E-01 1.57E-01 1.13E-01 9.01E-04 3.68E-01 1.43E+04 8.31E-01 5.35E+01 3.23E-01 is necessary to ge Ac	Carcinogens 5.12E-11 3.31E-06 1.47E-09 1.79E-09 2.32E-09 3.11E-09 1.05E-09 7.55E-10 6.02E-12 2.46E-09 7.33E-06 5.55E-09 2.75E-08 2.16E-09	Noncarcinogens 1.43E-10 9.28E-06 4.13E-09 5.01E-09 6.49E-09 8.71E-09 2.94E-09 2.11E-09 1.68E-11 6.88E-09 2.05E-05 1.55E-08 7.70E-08 6.04E-09 EAC for Noncarcinogens 1.30E-14
Chemical 4.4-DDD Aluminum Aroclor-1254 Benzo(a)anthracer Benzo(b)fluoranthe Benzo(h)aluoranthe Dibenz(a,h)anthrac Dieldrin Indeno(1,2,3-cd)py Iron Isopropylbenzene (Lead Napthalene INHALATION PATI Ac = Sc * (1) EAC = (Ac * Ei Chemical 4,4-DDD Aluminum	ne enne enne cene vrene (cumene) HWAY /PEF) F*ED) / AT *for carcinogens, Sc 7.89E-04 5.34E+03	ABSd 1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.00E-02 1.30E-01 1.30E-01	7.66E-03 6.45E+03 2.05E-01 2.68E-01 3.47E-01 4.66E-01 1.57E-01 1.13E-01 9.01E-04 3.68E-01 1.43E+04 8.31E-01 5.35E+01 3.23E-01 is necessary to ge Ac 7.89E-13 5.34E-06	Carcinogens 5.12E-11 3.31E-06 1.47E-09 1.79E-09 2.32E-09 3.11E-09 1.05E-09 7.55E-10 6.02E-12 2.46E-09 7.33E-06 5.55E-09 2.75E-08 2.16E-09 t into proper units, ug/m3 EAC for Carcinogens 4.63E-12 3.13E-05	Noncarcinogens 1.43E-10 9.28E-06 4.13E-09 5.01E-09 6.49E-09 8.71E-09 2.94E-09 2.11E-09 1.68E-11 6.88E-09 2.05E-05 1.55E-08 7.70E-08 6.04E-09
Chemical 4,4-DDD Alumhum Aroclor-1254 Benzo(a)anthracer Benzo(a)pyrene Benzo(b)fluoranthe Benzo(b)fluoranthe Dibenz(a, h)anthrac Dibenz(a, h)anthrac Dieldrin Indeno(1,2,3-cd)py iron Isopropylbenzene (Lead Napthalene INHALATION PATI Ac = Sc * (1/2) EAC = (Ac * Ei Chemical 4,4-DDD Aluminum Aroclor-1254	ne sine sine sine sine sine sine sine si	ABSd 1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.00E-02 1.30E-01 1.30E-01	7.66E-03 6.45E+03 2.05E-01 2.68E-01 3.47E-01 4.66E-01 1.57E-01 1.13E-01 9.01E-04 3.68E-01 1.43E+04 6.31E-01 5.35E+01 3.23E-01 7.89E-13 5.34E-06 1.37E-10	Carcinogens 5.12E-11 3.31E-06 1.47E-09 1.79E-09 2.32E-09 3.11E-09 1.05E-09 7.55E-10 6.02E-12 2.46E-09 7.33E-06 5.55E-09 2.75E-08 2.16E-09	Noncarcinogens 1.43E-10 9.28E-06 4.13E-09 5.01E-09 6.49E-09 8.71E-09 2.94E-09 2.11E-09 1.68E-11 6.88E-09 2.05E-05 1.55E-08 7.70E-08 6.04E-09 EAC for Noncarcinogens 1.30E-14 8.77E-08 2.28E-12
Chemical 4.4-DDD Aluminum Aroclor-1254 Benzo(a)anthracer Benzo(a)pyrene Benzo(a)pyrene Benzo(b)fluoranthe Benzo(k)fluoranthe Dibenz(a,h)anthrac Dibenz(a,h)anthrac Dibenz(a,h)anthrac Disorropylbenzene Lead Napthalene INHALATION PATI Ac = Sc * (1/ EAC = (Ac * Ei Chemical 4.4-DDD Aluminum Aroclor-1254 Benzo(a)anthracer	ne ene ene ene ene ene ene ene ene ene	ABSd 1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.00E-02 1.30E-01 1.30E-01	7.66E-03 6.45E+03 2.05E-01 2.68E-01 3.47E-01 4.66E-01 1.57E-01 1.13E-01 9.01E-04 3.68E-01 1.43E+04 8.31E-01 5.35E+01 3.23E-01 is necessary to ge Ac 7.89E-13 5.34E-06 1.37E-10 3.45E-10	Carcinogens 5.12E-11 3.31E-06 1.47E-09 1.79E-09 2.32E-09 3.11E-09 1.05E-09 7.55E-10 6.02E-12 2.46E-09 7.33E-06 5.55E-09 2.75E-08 2.16E-09 t into proper units, ug/m3 EAC for Carcinogens 4.63E-12 3.13E-05 8.04E-10 2.03E-09	Noncarcinogens 1.43E-10 9.28E-06 4.13E-09 5.01E-09 6.49E-09 8.71E-09 2.94E-09 2.11E-09 1.68E-11 6.88E-09 2.05E-05 1.55E-08 7.70E-08 6.04E-09 EAC for Noncarcinogens 1.30E-14 8.77E-08 2.28E-12 5.67E-12
Chemical 4,4-DDD Aluminum Arocior-1254 Benzo(a)anthracer Benzo(b)fluoranthe Benzo(h)aluoranthe Dibenz(a,h)anthrac Dieldrin Indeno(1,2,3-cd)py Iron Isopropylbenzene (Lead Napthalene INHALATION PATI Ac = Sc * (1) EAC = (Ac * Ei Chemical 4,4-DDD Aluminum Arocior-1254 Benzo(a)anthracer Benzo(a)pyrene	Tee ane ane ane ane ane ane ane ane ane a	ABSd 1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.00E-02 1.30E-01 1.30E-01	7.66E-03 6.45E+03 2.05E-01 2.68E-01 3.47E-01 4.66E-01 1.57E-01 1.13E-01 9.01E-04 3.68E-01 1.43E+04 6.31E-01 5.35E+01 3.23E-01 7.89E-13 5.34E-06 1.37E-10	Carcinogens 5.12E-11 3.31E-06 1.47E-09 1.79E-09 2.32E-09 3.11E-09 1.05E-09 7.55E-10 6.02E-12 2.46E-09 7.33E-06 5.55E-09 2.75E-08 2.16E-09 t into proper units, ug/m3 EAC for Carcinogens 4.63E-12 3.13E-05 8.04E-10 2.03E-09 2.68E-09	Noncarcinogens 1.43E-10 9.28E-06 4.13E-09 5.01E-09 6.49E-09 8.71E-09 2.94E-09 2.11E-09 1.68E-11 6.88E-09 2.05E-05 1.55E-08 7.70E-08 6.04E-09 EAC for Noncarcinogens 1.30E-14 8.77E-08 2.25E-12 5.67E-12 7.51E-12
Chemical 4,4-DDD Alumhum Aroclor-1254 Benzo(a)anthracer Benzo(a)pyrene Benzo(b)fluoranthe Benzo(b)fluoranthe Dibenz(a,h)anthrac Dibenz(a,h)anthrac Dibenz(a,h)anthrac Discopropylbenzene (Lead Napthalene INHALATION PATI Ac = Sc* (1/EAC = (Ac*EI Chemical 4,4-DDD Alumhum Aroclor-1254 Benzo(a)anthracer Benzo(a)pyrene Benzo(b)fluoranthe	Telephone Telephone	ABSd 1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.00E-02 1.30E-01 1.30E-01	7.66E-03 6.45E+03 2.05E-01 2.68E-01 3.47E-01 4.66E-01 1.13E-01 9.01E-04 3.68E-01 1.43E+04 6.31E-01 5.35E+01 3.23E-01 is necessary to ge Ac 7.89E-13 5.34E-06 1.37E-10 3.45E-10 4.57E-10 5.82E-10	Carcinogens 5.12E-11 3.31E-06 1.47E-09 1.79E-09 2.32E-09 3.11E-09 1.05E-09 7.55E-10 6.02E-12 2.46E-09 7.33E-06 5.55E-09 2.75E-08 2.16E-09 t into proper units, ug/m3 EAC for Carcinogens 4.63E-12 3.13E-05 8.04E-10 2.03E-09 2.68E-09 3.42E-09	Noncarcinogens 1.43E-10 9.28E-06 4.13E-09 5.01E-09 6.49E-09 8.71E-09 2.94E-09 2.11E-09 1.68E-11 6.88E-09 2.05E-06 1.55E-08 7.70E-08 6.04E-09 EAC for Noncarcinogens 1.30E-14 8.77E-08 2.25E-12 5.67E-12 7.51E-12 9.57E-12
Chemical 4.4-DDD Aluminum Aroclor-1254 Benzo(a)anthracer Benzo(a)pyrene Benzo(a)pyrene Benzo(b)fluoranthe Benzo(k)fluoranthe Dibenz(a,h)anthrac Dibenz(a,h)anthrac Dibenz(a,h)anthrac Disorropylbenzene Lead Napthalene INHALATION PATI Ac = Sc * (1/ EAC = (Ac * Ei Chemical 4.4-DDD Aluminum Aroclor-1254 Benzo(a)anthracer	re ene ene ene ene ene ene ene ene ene e	ABSd 1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.00E-02 1.30E-01 1.30E-01	7.66E-03 6.45E+03 2.05E-01 2.68E-01 3.47E-01 4.66E-01 1.57E-01 1.13E-01 9.01E-04 3.68E-01 1.43E+04 8.31E-01 5.35E+01 3.23E-01 s necessary to ge Ac 7.89E-13 5.34E-06 1.37E-10 3.45E-10 4.57E-10	Carcinogens 5.12E-11 3.31E-06 1.47E-09 1.79E-09 2.32E-09 3.11E-09 1.05E-09 7.55E-10 6.02E-12 2.46E-09 7.33E-06 5.55E-09 2.75E-08 2.16E-09 t into proper units, ug/m3 EAC for Carcinogens 4.63E-12 3.13E-05 8.04E-10 2.03E-09 2.68E-09	Noncarcinogens 1.43E-10 9.28E-06 4.13E-09 5.01E-09 6.49E-09 8.71E-09 2.94E-09 2.11E-09 1.68E-11 6.88E-09 2.05E-05 1.55E-08 7.70E-08 6.04E-09 EAC for Noncarcinogens 1.30E-14 8.77E-08 2.25E-12 5.67E-12 7.51E-12 9.57E-12
Chemical 4,4-DDD Aluminum Arocior-1254 Benzo(a)anthracer Benzo(b)fluoranthe Benzo(b)fluoranthe Dibenz(a,h)anthrac Dieldrin Indeno(1,2,3-cd)py iron Isopropylbenzene (Lead Napthalene INHALATION PATI Ac = Sc * (1) EAC = (Ac * Ei Chemical 4,4-DDD Aluminum Arocior-1254 Benzo(a)anthracer Benzo(a)pyrene Benzo(a)pyrene Benzo(b)fluoranthe Benzo(b)fluoranthe Dibenz(a,h)anthrac	Tee 3.45E-01 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1	ABSd 1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.00E-02 1.30E-01 1.30E-01	7.66E-03 6.45E+03 2.05E-01 2.68E-01 3.47E-01 4.66E-01 1.57E-01 1.13E-01 9.01E-04 3.68E-01 1.43E+04 8.31E-01 5.35E+01 3.23E-01 is necessary to ge Ac 7.89E-13 5.34E-06 1.37E-10 3.45E-10 4.57E-10 5.82E-10 2.40E-10 1.55E-10	Carcinogens 5.12E-11 3.31E-06 1.47E-09 1.79E-09 2.32E-09 3.11E-09 1.05E-09 7.55E-10 6.02E-12 2.46E-09 7.33E-06 5.55E-09 2.75E-08 2.16E-09 t into proper units, ug/m3 EAC for Carcinogens 4.63E-12 3.13E-05 8.04E-10 2.03E-09 1.41E-09 9.10E-10	Noncarcinogens 1.43E-10 9.28E-06 4.13E-09 5.01E-09 6.49E-09 8.71E-09 2.94E-09 2.11E-09 1.68E-11 6.88E-09 2.05E-05 1.55E-08 7.70E-08 6.04E-09 EAC for Noncarcinogens 1.30E-14 8.77E-08 2.25E-12 5.67E-12 7.51E-12 9.57E-12 3.95E-12
Chemical 4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracer Benzo(a)pyrene Benzo(b)fluoranthe Dibenz(a,h)anthrac Dibenz(a,h)anthrac Dibenz(a,h)anthrac Discopropylbenzene (Lead Napthalene INHALATION PATI Ac = Sc* (1/EAC = (Ac*EI Chemical 4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracer Benzo(a)pyrene Benzo(a)pyrene Benzo(b)fluoranthe Dibenz(a,h)anthrac Dibenz(a,h)anthrac Dibeldrin	Telephone Telephone	ABSd 1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.00E-02 1.30E-01 1.30E-01	7.66E-03 6.45E+03 2.05E-01 2.68E-01 3.47E-01 4.66E-01 1.57E-01 1.13E-01 9.01E-04 3.68E-01 1.43E+04 6.31E-01 5.35E+01 3.23E-01 is necessary to ge Ac 7.89E-13 5.34E-06 1.37E-10 3.45E-10 4.57E-10 5.82E-10 2.40E-10	Carcinogens 5.12E-11 3.31E-06 1.47E-09 1.79E-09 2.32E-09 3.11E-09 1.05E-09 7.55E-10 6.02E-12 2.46E-09 7.33E-06 5.55E-09 2.75E-08 2.16E-09 t into proper units, ug/m3 EAC for Carcinogens 4.63E-12 3.13E-05 8.04E-10 2.03E-09 2.68E-09 3.42E-09 1.41E-09	Noncarcinogens 1.43E-10 9.28E-06 4.13E-09 5.01E-09 6.49E-09 8.71E-09 2.94E-09 2.11E-09 1.68E-11 6.88E-09 2.05E-05 1.55E-08 7.70E-08 6.04E-09 EAC for Noncarcinogens 1.30E-14 8.77E-08 2.25E-12 5.67E-12 7.51E-12 9.57E-12
Chemical 4.4-DDD Aluminum Arocior-1254 Benzo(a)anthracer Benzo(a)pyrene Benzo(a)pyrene Benzo(k)fluoranthe Dibenz(a,h)anthraco Dibenz(a,h)anthraco Dibenz(a,h)anthraco Disorproylbenzene Lead Napthalene INHALATION PATI Ac = Sc * (1/ EAC = (Ac * Ei Chemical 4.4-DDD Aluminum Arocior-1254 Benzo(a)anthracer Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)fluoranthe Benzo(a)fluoranthe Dibenz(a,h)anthraco Dieldrin Indeno(1,2,3-cd)py Indeno(1,2,3-c	### Total Process	ABSd 1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.00E-02 1.30E-01 1.30E-01	7.66E-03 6.45E+03 2.05E-01 2.68E-01 3.47E-01 4.66E-01 1.13E-01 9.01E-04 3.68E-01 1.43E+04 6.31E-01 5.35E+01 3.23E-01 is necessary to ge Ac 7.89E-13 5.34E-06 1.37E-10 3.45E-10 4.57E-10 5.82E-10 2.40E-10 1.55E-10 9.97E-13	Carcinogens 5.12E-11 3.31E-06 1.47E-09 1.79E-09 2.32E-09 3.11E-09 1.05E-09 7.55E-10 6.02E-12 2.46E-09 7.33E-06 5.55E-09 2.75E-08 2.16E-09 t into proper units, ug/m3 EAC for Carcinogens 4.63E-12 3.13E-05 8.04E-10 2.03E-09 2.68E-09 3.42E-09 1.41E-09 9.10E-10 5.85E-12	Noncarcinogens 1.43E-10 9.28E-06 4.13E-09 5.01E-09 6.49E-09 8.71E-09 2.94E-09 2.11E-09 1.68E-11 6.88E-09 2.05E-05 1.55E-08 7.70E-08 6.04E-09 EAC for Noncarcinogens 1.30E-14 8.77E-08 2.25E-12 5.67E-12 9.57E-12 3.95E-12 2.55E-12 1.64E-14
Chemical 4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracer Benzo(a)pyrene Benzo(b)fluoranthe Dibenz(a,h)anthrac Dieldrin Indeno(1,2,3-cd)py Iron Isopropylbenzene (Lead Napthalene INHALATION PATI Ac = Sc * (1/EAC = (Ac * Ei Chemical 4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracer Benzo(a)pyrene Benzo(b)fluoranthe Benzo(b)fluoranthe Dibenz(a,h)anthrac Dieldrin Indeno(1,2,3-cd)py Iron Isopropylbenzene (Indeno(1,2,3-cd)py Iron Isopropylbenzene (Indeno(1,2,3-cd)py Iron Isopropylbenzene (Indeno(1,2,3-cd))	T. 89E-04 5.34E-03 1.37E-01 4.57E-01 9.97E-04 7.00E-01 1.55E-01 9.97E-04 7.03E-01 1.53E-01 1.53E-01 1.53E-01	ABSd 1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.00E-02 1.30E-01 1.30E-01	7.66E-03 6.45E+03 2.05E-01 2.68E-01 3.47E-01 4.66E-01 1.157E-01 1.13E-01 9.01E-04 3.68E-01 1.43E+04 6.31E-01 5.35E+01 3.23E-01 is necessary to ge Ac 7.89E-13 5.34E-06 1.37E-10 3.45E-10 4.57E-10 5.82E-10 2.40E-10 1.55E-10 1.55E-10 1.63E-05 8.31E-05	Carcinogens 5.12E-11 3.31E-06 1.47E-09 1.79E-09 2.32E-09 3.11E-09 1.05E-09 7.55E-10 6.02E-12 2.46E-09 7.33E-06 5.55E-09 2.75E-08 2.16E-09 t into proper units, ug/m3 EAC for Carcinogens 4.63E-12 3.13E-05 8.04E-10 2.03E-09 1.41E-09 9.10E-10 5.85E-12 2.76E-09 9.56E-05 4.88E-09	Noncarcinogens 1.43E-10 9.28E-06 4.13E-09 5.01E-09 6.49E-09 8.71E-09 2.94E-09 2.11E-09 1.68E-11 6.88E-09 2.05E-05 1.55E-08 7.70E-08 6.04E-09 EAC for Noncarcinogens 1.30E-14 8.77E-08 2.25E-12 5.67E-12 7.51E-12 9.57E-12 3.95E-12 2.55E-12 1.84E-14 7.73E-12
Chemical 4.4-DDD Aluminum Aroclor-1254 Benzo(a)anthracer Benzo(b)fluoranthe Benzo(h)anthrac Benzo(h)anthrac Dieldrin Indeno(1,2,3-cd)py Iron Isopropylbenzene (Lead Napthalene INHALATION PATI Ac = Sc * (1) EAC = (Ac * Ei Chemical 4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracer Benzo(a)pyrene Benzo(a)pyrene Benzo(b)fluoranthe Dibenz(a, h)anthrac Dieldrin Indeno(1,2,3-cd)py Iron	T. 89E-04 5.34E-03 1.37E-01 4.57E-01 9.97E-04 7.00E-01 1.55E-01 9.97E-04 7.03E-01 1.53E-01 1.53E-01 1.53E-01	ABSd 1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.00E-02 1.30E-01 1.30E-01	7.66E-03 6.45E+03 2.05E-01 2.68E-01 3.47E-01 4.66E-01 1.57E-01 1.13E-01 9.01E-04 3.68E-01 1.43E+04 8.31E-01 5.35E+01 3.23E-01 is necessary to ge Ac 7.89E-13 5.34E-06 1.37E-10 3.45E-10 4.57E-10 5.82E-10 2.40E-10 1.55E-10 9.97E-13 4.70E-10	Carcinogens 5.12E-11 3.31E-06 1.47E-09 1.79E-09 2.32E-09 3.11E-09 1.05E-09 7.55E-10 6.02E-12 2.46E-09 7.33E-06 5.55E-09 2.75E-08 2.16E-09 t into proper units, ug/m3 EAC for Carcinogens 4.63E-12 3.13E-05 8.04E-10 2.03E-09 1.41E-09 9.10E-10 5.85E-12 2.76E-09 9.56E-05	Noncarcinogens 1.43E-10 9.28E-06 4.13E-09 5.01E-09 6.49E-09 8.71E-09 2.94E-09 2.11E-09 1.68E-11 6.88E-09 2.05E-05 1.55E-08 7.70E-08 6.04E-09 EAC for Noncarcinogens 1.30E-14 8.77E-08 2.25E-12 5.67E-12 7.51E-12 9.57E-12 3.95E-12 1.64E-14 7.73E-12 2.68E-07

TABLE C-4 INTAKE CALCULATIONS FOR SOIL SOUTH OF MARLIN RME -- YOUTH TRESPASSER (age 6 to 18)

			_ 			
SOIL INGESTION						
 INTAKE = (Sc * IR * E	F * ED * CF) / (BW * AT)					
	22 0,,,(2,,, 1,,,,					
Parameter	Definition			Value	Reference	
Intake	Intake of chemical (mg/kg-day)		calculated		
Sc	Soil concentration (mg/kg)			see data page		
Ac EAC	Air concentration (mg/m^3) Effective air concentration (mg	/m^2\		see below calculated		
PEF	Particulate Emission Factor (mg			1.00E+09	EPA, 2004a	
IR	Ingestion rate of soil (mg/day)	J/Kg/		100	TNRCC, 1998	
SA	Skin surface area (cm2)			3500	TNRCC, 1998	
AF	Soil to skin adherence factor (ma/cm2)		0.1	TNRCC, 1998	
ABSd	Dermal absorption fraction (un			see chemprop page		
EF	Exposure frequency (day/yr)	•		50	TNRCC, 1998	
ED	Exposure duration (yr)			12	TNRCC, 1998	
CF	Conversion factor (kg/mg)			1.00E-06	EPA, 1989	
BW	Body weight (kg)			40	EPA, 1991a	
ATc	Averaging time for carcinogen			25550	EPA, 1989	
ATnc	Averaging time for noncarcino	gens (days)		9125	EPA, 1989	
				Intelle for	lately 6	
Chemical			Sc	Intake for Carcinogens	Intake for Noncarcinogens	
			4.55			
4,4-DDD			4.98E-02	2.92E-09	8.19E-09	
Aluminum			6.91E+03	4.06E-04	1.14E-03	
Aroclor-1254			7.40E-01	4.34E-08	1.22E-07	
Benzo(a)anthracene			8.59E-01	5.04E-08	1.41E-07	
Benzo(a)pyrene			1.01E+00 1.26E+00	5,92E-08	1,66E-07 2,06E-07	
Benzo(b)fluoranthene Benzo(k)fluoranthene				7.37E-08 2.22E-0B	6.21E-08	
Dibenzo(k)riuoranmene Dibenz(a,h)anthracen			3,78E-01 2,36E-01	2.22E-08 1.39E-08	3.88E-08	
Dieldrin	-		2.10E-03	1.23E-10	3.45E-10	
Indeno(1,2,3-cd)pyrer	18		7.61E-01	4.47E-08	1.25E-07	
iron			1.75E+04	1.02E-03	2.87E-03	
isopropylbenzene (cu	mene)		8.62E+00	5.06E-07	1.42E-06	
Lead	•		1.04E+02	6.11E-06	1.71E-05	
Napthalene			2.78E+00	1.63E-07	4.56E-07	
DERMAL CONTACT				·		
INTAKE = (Sc * SA * /	AF * ABSd * EF * ED * CF) / (B	Λ* ΑΤ)				· -
Chemical		ABSd	Sc	Intake for Carcinogens	Intake for Noncarcinogens	
4,4-DDD		1.30E-01	4.98E-02	1,33E-09	3,72E-09	
Aluminum		1.00E-02	6.91E+03	1.42E-05	3.98E-05	
Aroclor-1254		1.40E-01	7.40E-01	2,13E-08	5.96E-08	
Benzo(a)anthracene		1,30E-01	8.59E-01	2.29E-08	6.42E-08	
Benzo(a)pyrene		1,30E-01	1.01E+00	2.69E-08	7.54E-08	
Benzo(b)fluoranthene		1,30E-01	1,26E+00	3.36E-08	9.39E-08	
Benzo(k)fluoranthene		1.30E-01	3,78E-01	1.01E-08	2,83E-08	
Dibenz(a,h)anthracen		1.30E-01	2.36E-01	6.30E-09	1.77E-08	
Dieldrin		1,30E-01	2,10E-03	5.61E-11	1,57E-10	
Indeno(1,2,3-cd)pyrer	ie	1.30E-01	7.61E-01	2.03E-08	5.69E-0B	
Iron		1.00E-02	1.75E+04	3,59E-05	1.00E-04	
Isopropylbenzene (cu	mene)	1.30E-01	8.62E+00	2.30E-07	6.45E-07	
Lead		1.00E-02	1.04E+02	2.14E-07	5.98E-07	
Napthalene		1.30E-01	2.78E+00	7.41E-08	2.08E-07	
INHALATION PATHW	/AY					
1						
Ac= Sc*(1/PE EAC= (Ac*EF*		ens, a conversion	ls necessary to	get into proper units, ug/m3		
EAC = (Ac*EF*		ens, a conversion	is necessary to	EAC for	EAC for	
EAC = (Ac * EF * Chemical	ED) / AT *for carcinoge		Ac	EAC for Carcinogens	Noncarcinogens	
EAC = (Ac * EF * Chemical 4,4-DDD	ED) / AT *for carcinoge Sc 2.90E-	03	Ac 2.90E-12	EAC for Carcinogens 6.81E-11	Noncarcinogens 1,91E-13	
EAC = (Ac * EF * Chemical 4,4-DDD Aluminum	ED) / AT *for carcinoge Sc 2.90E- 5.95E+	03 03	Ac 2.90E-12 5.95E-06	EAC for Carcinogens 6.81E-11 1.40E-04	Noncarcinogens 1,91E-13 3,91E-07	
EAC = (Ac * EF * Chemical 4,4-DDD Aluminum Aroclor-1254	ED) / AT *for carcinoge Sc 2.90E- 5.95E- 7.26E-	03 03 01	Ac 2.90E-12 5.95E-06 7.26E-10	EAC for Carcinogens 6.81E-11 1.40E-04 1.70E-08	1.91E-13 3.91E-07 4.77E-11	
EAC = (Ac * EF * Chemical 4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene	ED) / AT *for carcinogs Sc 2.90E- 5.95E- 7.26E- 1.21E+	03 03 01	Ac 2.90E-12 5.95E-06 7.26E-10 1.21E-09	EAC for Carcinogens 6.81E-11 1.40E-04 1.70E-08 2.84E-08	1.91E-13 3.91E-07 4.77E-11 7.96E-11	
EAC = (Ac * EF * Chemical 4.4-DDD Aluminum Aroctor-1254 Benzo(a)anthracene Benzo(a)pyrene	ED) / AT *for carcinoge So 2.90E- 5.95E+ 7.26E- 1.21E+ 1.46E+	03 03 01 00	Ac 2.90E-12 5.95E-06 7.26E-10 1.21E-09 1.46E-09	EAC for Carcinogens 6.81E-11 1.40E-04 1.70E-08 2.84E-08 3.42E-08	Noncarcinogens 1.91E-13 3.91E-07 4.77E-11 7.96E-11 9.58E-11	
EAC = (Ac * EF * Chemical 4,4-DDD Aluminum Aroctor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene	2.90E 5.95E 7.26E 1.21E 1.46E 1.64E	03 03 01 00 00	Ac 2.90E-12 5.95E-06 7.26E-10 1.21E-09 1.46E-09 1.64E-09	EAC for Carcinogens 6.81E-11 1.40E-04 1.70E-08 2.84E-08 3.42E-08 3.85E-08	Noncarcinogens 1.91E-13 3.91E-07 4.77E-11 7.96E-11 9.58E-11 1.08E-10	-
EAC = (Ac * EF * Chemical 4,4-DDD Aluminum Arcolor-1254 Benzo(a)anthracene Benzo(b)fluoranthene Benzo(k)fluoranthene	2,90E- 5,95E- 7,26E- 1,46E+ 1,64E+ 6,51E-	03 03 01 00 00 00	2.90E-12 5.95E-06 7.26E-10 1.21E-09 1.46E-09 6.51E-10	EAC for Carcinogens 6.81E-11 1.40E-04 1.70E-08 2.84E-08 3.42E-08 3.85E-08 1.53E-08	1.91E-13 3.91E-07 4.77E-11 7.96E-11 9.58E-11 1.08E-10 4.28E-11	
EAC = (Ac * EF * Chemical 4.4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Dibenz(a, h)anthracen	2.90E- 5.95E- 7.26E- 1.21E- 1.64E+ 6.51E- e 3.63E-	03 03 01 00 00 00 00	2.90E-12 5.95E-06 7.26E-10 1.21E-09 1.64E-09 6.51E-10 3.63E-10	EAC for Carcinogens 6.81E-11 1.40E-04 1.70E-08 2.84E-08 3.42E-08 3.85E-08 1.53E-08 6.52E-09	Noncarcinogens 1.91E-13 3.91E-07 4.77E-11 7.96E-11 9.58E-11 1.08E-10 4.28E-11 2.39E-11	
EAC = (Ac * EF * Chemical 4,4-DDD Aluminum Aroctor-1254 Benzo(a)aprtracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Dibenz(a,h)anthracen Dieldrin	2.90E- 5.95E- 7.26E- 1.21E- 1.64E- 6.51E- e 3.63E- 3.00E-	03 03 01 00 00 00 00 01 01	Ac 2.90E-12 5.95E-06 7.26E-10 1.21E-09 1.46E-09 6.51E-10 3.63E-10 3.00E-12	EAC for Carcinogens 6.81E-11 1.40E-04 1.70E-08 2.84E-08 3.42E-08 1.53E-08 1.53E-08 6.52E-09 7.05E-11	Noncarcinogens 1.91E-13 3.91E-07 4.77E-11 7.96E-11 9.58E-11 1.08E-10 4.28E-11 2.39E-11 1.97E-13	
EAC = (Ac * EF * Chemical 4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Dibenz(a,h)anthracen Dieldrin Indeno(1,2,3-cd)pyrer	2.90E- 5.95E- 7.26E- 1.21E+ 1.46E- 6.51E- 8.3.03E- 1.12E+	03 03 01 00 00 00 01 01 03	Ac 2.90E-12 5.95E-06 7.26E-10 1.21E-09 1.64E-09 6.51E-10 3.63E-10 3.00E-12 1.12E-09	EAC for Carcinogens 6.81E-11 1.40E-04 1.70E-08 2.84E-08 3.42E-08 3.52E-08 1.53E-08 8.52E-09 7.05E-11 2.62E-08	Noncarcinogens 1.91E-13 3.91E-07 4.77E-11 7.96E-11 9.58E-11 1.08E-10 4.28E-11 2.39E-11 1.97E-13 7.33E-11	
EAC = (Ac * EF * Chemical 4,4-DDD Aluminum Arcolor-1254 Benzo(a)anthracene Benzo(b)fluoranthene Benzo(b)fluoranthene Dibenz(a,h)anthracen Dieldiri Indeno(1,2,3-cd)pyrer Iron	2.90E-5.95E-7.26E-1.21E-1.46E+6.51E-6 3.03E-3.00E-1.12E+1.78	03 03 01 00 00 00 01 01 01 03 00 00	Ac 2.90E-12 5.95E-06 7.26E-10 1.21E-09 1.46E-09 1.64E-09 3.63E-10 3.00E-12 1.12E-09 1.78E-05	EAC for Carcinogens 6.81E-11 1.40E-04 1.70E-08 2.84E-08 3.42E-08 3.85E-08 1.53E-08 6.52E-09 7.05E-11 2.62E-08 4.19E-04	Noncarcinogens 1.91E-13 3.91E-07 4.77E-11 7.96E-11 9.58E-11 1.08E-10 4.28E-11 2.39E-11 1.97E-13 7.33E-11 1.17E-06	
Chemical 4,4-DDD Aluminum Aroctor-1254 Benzo(a)anthracene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Dibenz(a,h)anthracen Dieldrin Indeno(1,2,3-cd)pyrer Iron Isopropylbenzene (cu	2.90E-5.95E-7.26E-1.21E-1.46E+6.51E-6 3.03E-3.00E-1.12E+1.78	03 03 01 00 00 00 01 01 03 00 04	Ac 2.90E-12 5.95E-06 7.26E-10 1.21E-09 1.46E-09 6.51E-10 3.00E-12 1.12E-09 1.78E-05 8.62E-09	EAC for Carcinogens 6.81E-11 1.40E-04 1.70E-08 2.84E-08 3.42E-08 3.85E-08 1.53E-08 6.52E-09 7.05E-11 2.62E-08 4.19E-04 2.02E-07	Noncarcinogens 1.91E-13 3.91E-07 4.77E-11 7.96E-11 9.58E-11 1.08E-10 4.28E-11 2.39E-11 1.97E-13 7.33E-11 1.17E-06 5.67E-10	
Chemical 4,4-DDD Aluminum Arocior-1254 Benzo(a)anthracene Benzo(b)fluoranthene Benzo(b)fluoranthene Dibenz(a,h)anthracen Dieldrin Indeno(1,2,3-cd)pyrer Iron	2.90E 5.95E+ 7.26E- 1.21E- 1.64E- 6.51E- e 3.63E- 3.00E- ite 1.12E- 1.78E+ mene) 8.62E+	03 03 01 00 00 00 01 01 03 00 04 00 01	Ac 2.90E-12 5.95E-06 7.26E-10 1.21E-09 1.46E-09 1.64E-09 3.63E-10 3.00E-12 1.12E-09 1.78E-05	EAC for Carcinogens 6.81E-11 1.40E-04 1.70E-08 2.84E-08 3.42E-08 3.85E-08 1.53E-08 6.52E-09 7.05E-11 2.62E-08 4.19E-04	Noncarcinogens 1.91E-13 3.91E-07 4.77E-11 7.96E-11 9.58E-11 1.08E-10 4.28E-11 2.39E-11 1.97E-13 7.33E-11 1.17E-06	

TABLE C-5 INTAKE CALCULATIONS FOR SOIL SOUTH OF MARLIN AVERAGE – CONSTRUCTION WORKER

COIL INCCETION					
SOIL INGESTION					
INTAKE = (Sc * IR * E	EF * ED * CF) / (BW * AT)				
,					
Parameter	Definition			Value Reference	
Intake ·	Intake of chemical (mg/kg-day)			calculated	
Sc	Soil concentration (mg/kg)			see data page	
Ac EAC	Air concentration (mg/m^3)			see below	
PEF	Effective air concentration (mg/m^3 Particulate Emission Factor (m^3/kg			calculated 1.00E+09 EPA, 2004a	
IR	Ingestion rate of soil (mg/day)	97		165 professional judgment	
SA	Skin surface area (cm2)			3300 EPA, 2004a	
AF	Soil to skin adherence factor (mg/c	:m2)		0.14 EPA, 2004b	
ABSd	Dermal absorption fraction (unitless			see chemprop page	
EF	Exposure frequency (day/yr)	-7		90 professional judgment	
ED	Exposure duration (yr)			1 professional judgment	
CF	Conversion factor (kg/mg)			1.00E-06 EPA, 1989	
вw	Body weight (kg)			70 EPA, 1989	
ATC	Averaging time for carcinogens (da	ıys)		25550 EPA, 1989	
ATnc	Averaging time for noncarcinogens	i (days)		365 EPA, 1989	
			•	teacher to a second and	
Chaminal			Sc	Intake for Intake for	
Chemical				Carcinogens Noncarcinogens	
44 DDD			7 665 00	6 36E 44	
4,4-DDD			7.66E-03	6.36E-11 4.45E-09	
Aluminum Aroclor-1254			6.45E+03 2.05E-01	5.36E-05 3.75E-03 1.70E-09 1.19E-07	
Benzo(a)anthracene			2.05E-01 2.68E-01	1.70E-09 1.19E-07 2.23E-09 1.56E-07	
Benzo(a)anurracene Benzo(a)pyrene			3.47E-01	2.23E-09 1.56E-07 2.88E-09 2.02E-07	
Benzo(b)fluoranthene	<u>.</u>		4.66E-01	3.87E-09 2.71E-07	
Benzo(k)fluoranthene			1.57E-01	1.30E-09 9.13E-08	
Dibenz(a,h)anthracen			1.13E-01	9.38E-10 6.57E-08	
Dieldrin			9,01E-04	7.48E-12 5.24E-10	
Indeno(1,2,3-cd)pyrer	ne		3,68E-01	3.06E-09 2.14E-07	
Iron			1.43E+04	1.19E-04 8.30E-03	
Isopropyibenzene (cu	mene)		8.31E-01	6.90E-09 4.83E-07	
Lead			5.35E+01	4.44E-07 3.11E-05	
Napthalene			3.23E-01	2.68E-09 1.88E-07	
DERMAL CONTACT					
INITAL/F - /0- + 0A +	AE * ABOJ * EE * ED * OE\ / (D)A/ * /	• -			
IN : AKE = (SC - SA	AF * ABSd * EF * ED * CF) / (BW * A	41)			
		ABSd	Sc	Intake for Intake for	
Chemical				Carcinogens Noncarcinogens	
4,4-DDD		1.30E-01	7.66E-03	2.32E-11 1.62E-09	
Aluminum		1.00E-02	6.45E+03	1.50E-06 1.05E-04	
Aroclor-1254		1.40E-01	2.05E-01	6.67E-10 4.67E-08	
Benzo(a)anthracene		1.30E-01	2.68E-01	8.10E-10 5.67E-08	
Benzo(a)pyrene		1.30E-01	3.47E-01	1,05E-09 7.34E-08	
Benzo(b)fluoranthene		1.30E-01	4.66E-01	1.41E-09 9.86E-08	
Benzo(k)fluoranthene		1.30E-01	1.57E-01	4.75E-10 3.32E-08	
Dibenz(a,h)anthracen	ie	1.30E-01	1.13E-01	3.42E-10 2.39E-08	
Dieldrin		1,30E-01	9.01E-04	2.72E-12 1.91E-10	
indeno(1,2,3-cd)pyrer	18	1.30E-01	3.68E-01	1.11E-09 7.79E-08	
iron		1.00E-02	1.43E+04	3.32E-06 2.32E-04	
Isopropyibenzene (cu	mene)	1.30E-01	8.31E-01	2.51E-09 1.76E-07 1.24E-08 8.71E-07	
Lead Napthalene		1.00E-02 1.30E-01	5,35E+01 3.23E-01	1.24E-08 8.71E-07 9.76E-10 6.83E-08	
i zahararene		1.50E*U1	J.20E-01	5.70L-10 U.03E-00	
INHALATION PATHW	VAY			· · · · · · · · · · · · · · · · · · ·	
Ac = Sc * (1/PE	F)				
EAC = (Ac * EF *		a conversion	is necessary to	o get into proper units, ug/m3	
<u></u>					
	Sc		Ac	EAC for EAC for	
Chemical	····			Carcinogens Noncarcinogens	
			7.005 ::	0.705.45	
4,4-DDD	7.89E-04		7.89E-13	2.78E-12 1.95E-13	
Aluminum	5,34E+03		5,34E-06	1.88E-05 1.32E-06	
Aroclor-1254	1.37E-01		1.37E-10	4.83E-10 3.38E-11	
Benzo(a)anthracene	3.45E-01		3.45E-10	1.22E-09 8.51E-11	
Benzo(a)pyrene	4.57E-01		4.57E-10	1.61E-09 1.13E-10	
Benzo(b)fluoranthene			5.82E-10	2.05E-09 1.44E-10	
Benzo(k)fluoranthene			2.40E-10	8.45E-10 5.92E-11	
Dibenz(a,h)anthracen Dieldrin			1.55E-10	5.46E-10 3.82E-11	
	9.97E-04 ne 4.70E-01		9.97E-13 4.70E-10	3.51E-12 2.46E-13 1.66E-09 1.16E-10	
Indeno(1,2,3-cd)pyrer Iron	ne 4.70E-01 1.63E+04		4.70E-10 1.63E-05	1.66E-09 1.16E-10 5.74E-05 4.02E-06	
iron Isopropyibenzene (cu			8.31E-10	2.93E-09 2.05E-10	
Lead	6.96E+01		6.96E-08	2.45E-07 1.72E-08	
Napthalene	3.23E-01		3.23E-10	1.14E-09 7.96E-11	

TABLE C-6 INTAKE CALCULATIONS FOR SOIL SOUTH OF MARLIN RME – CONSTRUCTION WORKER

				STRUCTION V			
SOIL INGESTION					-8"		
INTAKE = (Sc * IR	* EF * ED * CF) / (BW *	AT)					
Parameter	Definition				V	alue	Reference
Intake	Intake of chemical (r	ng/kg-day)				ulated	Keisteilce
Sc	Soil concentration (r					ata page	
Ac	Air concentration (m					below	
EAC PEF	Effective air concent Particulate Emission					ulated 0E+09	EPA, 2004a
iR	Ingestion rate of soil					330	EPA, 2004a EPA, 2001
SA	Skin surface area (c	m2)				300	EPA, 2004a
AF	Soil to skin adheren		2)			0.3	EPA, 2004b
ABSd	Dermal absorption for					nprop page	and an invariant
EF ED	Exposure frequency Exposure duration ()				•		professional judgment professional judgment
CF	Conversion factor (k				1.0	0E-06	EPA, 1989
BW	Body weight (kg)	S				70	EPA, 1989
ATc	Averaging time for c				· ·	5550	EPA, 1989
ATnc	Averaging time for n	oncarcinogens (d	iays)			365	EPA, 1989
Chemical				Sc		ke for nogens	Intake for Noncarcinogens
4,4-DDD				4,98E-02	ે	0E-09	1.61E-07
Aluminum				6.91E+03		9E-04	2,23E-02
Aroclor-1254				7.40E-01		1E-08	2.39E-06
Benzo(a)anthrace	ne			8,59E-01		6E-08	2.77E-06
Benzo(a)pyrene				1.01E+00		5E-08	3.25E-06
Benzo(b)fluoranth Benzo(k)fluoranth				1.26E+00 3.78E-01		9E-08 4E-08	4.06E-06 1.22E-06
Dibenz(a,h)anthra				3.76E-01 2.36E-01		9E-08	7.62E-07
Dieldrin				2.10E-03		9E-11	6.78E-09
Indeno(1,2,3-cd)py	yrene .			7.61E-01	3.5	1E-08	2.46E-06
Iron				1.75E+04		5E-04	5.64E-02
Isopropyibenzene Lead	(cumene)			8,62E+00 1,04E+02		BE-07 DE-06	2.78E-05 3.36E-04
Napthalene				2.78E+00		8E-07	8.96E-06
DERMAL CONTAC							
INTAKE = (Sc * S/	A*AF*ABSd*EF*ED	* CF) / (BW * AT))				
Chemical			ABSd	Sc		ke for nogens	Intake for Noncarcinogens
4,4-DDD		1	1.30E-01	4.98E-02	8.9	6E-10	6.27E-08
Aluminum			.00E-02	6.91E+03		7E-06	6,70E-04
Arocior-1254		1	I.40E-01	7.40E-01	1.43	3E-08	1,00E-06
Benzo(a)anthrace	ne		1.30E-01	8.59E-01		5E-08	1.08E-06
Benzo(a)pyrene Benzo(b)fluoranth	000		I.30E-01 I.30E-01	1.01E+00 1.26E+00		1E-08	1.27E-06
Benzo(k)fluoranth			1.30E-01	3.78E-01		6E-08 0E-09	1,58E-06 4,76E-07
Dibenz(a,h)anthra			.30E-01	2.36E-01		5E-09	2,97E-07
Dieldrin		1	1.30E-01	2.10E-03	3.78	BE-11	2.64E-09
Indeno(1,2,3-cd)py	yrene		1.30E-01	7.61E-01		7E-08	9,58E-07
lron	(rumono)		1.00E-02	1.75E+04 8.62E+00		2E-05 5E-07	1,69E-03
lsopropylbenzene Lead	(onlicite)		1.30E-01 1.00E-02	1.04E+02		5E-07 4E-07	1.09E-05 1.01E-05
Napthalene			1.30E-01	2.78E+00		9E-08	3.49E-06
INHALATION PAT	HWAY						
Ac = Sc * (1/ EAC = (Ac * E		carcinogens, a c	onversion	is necessary t	o get into proper unit	s, ug/m3	<u> </u>
Chemical		Sc		Ac		C for nogens	EAC for Noncarcinogens
4,4-DDD		2.90E-03		2.90E-12		4E-11	1.99E-12
Aluminum		5,95E+03		5.95E-06		2E-05	4.07E-06
Aroclor-1254		7.26E-01		7.26E-10		DE-09	4.97E-10
Benzo(a)anthracei Benzo(a)pyrene	lic	1.21E+00 1.46E+00		1.21E-09 1.46E-09		3E-08 3E-08	8.29E-10 9.98E-10
Benzo(b)fluoranth	ene	1.64E+00		1.46E-09 1.64E-09		0E-08	1,12E-09
Benzo(k)fluoranthe		6.51E-01		6.51E-10		7E-09	4.46E-10
Dibenz(a,h)anthra		3.63E-01		3.63E-10	3.5	5E-09	2,49E-10
Dieldrin		3.00E-03		3.00E-12		4E-11	2.05E-12
Indeno(1,2,3-cd)py	yrene	1.12E+00		1,12E-09		9E-08	7,64E-10
iron Isopropylbenzene	(cumene)	1.78E+04 8.62E+00		1.78E-05 8.62E-09		5E-04 3E-08	1.22E-05 5.90E-09
Lead	(outlierie)	8.45E+01		8.45E-08		7E-07	5,79E-08
Napthalene		2.78E+00		2.78E-09		2E-08	1.90E-09
í							

TABLE C-7 INTAKE CALCULATIONS FOR SOIL SOUTH OF MARLIN AVERAGE — INDUSTRIAL WORKER

National National	SOIL INGESTION							
Parameter		* FF * FD * CE\ / /5	RIM * AT)					
Intake of Intake of chemical grayling-day)	•		3VV - A1)					
Sec Sec Concentration (mg/kg) see below calculated Cardinogens Cardinoge			aal (malka das)				Reference	
Ar Connentration (mg/m²s)	Sc							
EFF Particulate Emission Factor (re/Wale) 1.00E+09 EPA, 2004a S. Injection rate of Stell (register) 50 EPA, 2004a S. Shin surface area (cm2) 50 EPA, 2004a	Ac							
Ingestion rate of soil (ingelsey)	EAC							
Sin surface area (cm2) 3300 EPA, 2004a				g)				
Solid to sith antherence factor (regidency) Solid to sith antherence factor (regidency) Solid to State Enaprope page Exposure frequency (daylyr) 256 EPA, 2004a								
Demail absorption fraction (milless)	AF.			m2)				
Description Property Proper	ABSd						,	
Conversion factor (fightms) 1,005-08 EPA, 1989 PA 1989	EF .							
March Body weight (leg)	ED .							
Tric Averaging time for carcinogens (days) Tric Averaging time for carcinogens (days) Tric Averaging time for noncarcinogens (days) Averaging time for noncarcinogens (days) Sc Intake for Carcinogens Averaging time for noncarcinogens (days) 7,58E-03 1,48E-09 1,4								
APPROACH Averaging time for noncarcinogens (days) Size Dept. 1989				ve)				
A-DDD	ATnc							
A-DDD						 	<u> </u>	
## ADDD	Chemical				Sc			
Juminarm					7 665 43		•	
AFE-01 S.06E-08 1.70E-07		ne .						
1,57E-01 2,74E-08 7,58E-09 1,75E-01 1,75E-08 5,53E-08 1,95E-01 1,75E-08 5,53E-08 1,95E-01 1,75E-08 5,53E-08 1,95E-01 5,43E-08 5,36E-08 1,43E-04 2,49E-03 6,98E-03 6,98E-0	Benzo(a)pyrene							
Neldrin								
Additional Add		cette						
1.43E-04 2.49E-03 6.98E-03 end end for f		vrene						
B.31E-01	ron							
ABBINATE See SA * AF * ABSd * EF * ED * CF / (BW * AT) See Sa * AF * ABSd * EF * ED * CF / (BW * AT)	sopropylbenzene	(сителе)			8.31E-01	1.45E-07	4.07E-07	
ABSd Sc Intake for Carcinogens Intake for Carcinogens Intake for Carcinogens Intake for Noncarcinogens	_ead							
ABSd Sc	vapinalene				3.23E-01	5.64E-08	1.586-07	
Carcinogens Noncarcinogens Noncarcinogens			* ED * CF) / (BW * /	AT)				
Carcinogens Noncarcinogens Noncarcinogens								
.4-DDD	Chemical			ABSd	Sc			
	Olientical				-	Calcinogena	Horicalcillogens	
1.00E-01 2.05E-01 6.95E-09 1.95E-08 1.95E-09 1.95E-08 1.95E-08 1.95E-09 1.95E-08 1.95E-09	4,4-DDD							
Ierazo(a)pyrene		10						
		ene						
					1.57E-01			
1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-02 3.68E-03 3.46E-05 9.68E-05 9.68E-06 9.68E-08 9.66E-08	Dibenz(a,h)anthrac			1.30E-01	1.13E-01	3.56E-09	9.96E-09	
1,00E-02	Dieldrin							
1.30E-01		rene						
1.00E-02 5.35E+01 1.30E-07 3.63E-07		(cumene)						
Aphalame	_ead	(-amend)						
Sc	Vapthalene							
AC = (Ac * EF * ED) / AT *for carcinogens, a conversion is necessary to get into proper units, ug/m3 Sc Ac EAC for Carcinogens PAC for Noncarcinogens A-DDD 7.89E-04 7.89E-13 1.93E-10 5.41E-13 1.80E-10 1.37E-04 1.37E-04 1.37E-06 1.31E-03 3.65E-06 1.37E-04 1.37E-10 1.37E-08 9.38E-11 1.80E-06 1.37E-08 9.38E-11 1.80E-07 1.47E-07 1.12E-07 3.13E-10 1.80E-06 1.37E-10 1.12E-07 3.13E-10 1.80E-06 1.37E-10 1.12E-07 3.13E-10 1.80E-06 1.37E-10 1.12E-07 3.13E-10 1.80E-06 1.37E-10 1.12E-07 3.13E-10 1.80E-06 1.37E-10 1.12E-07 3.19E-10 1.80E-06 1.37E-10 1.80E-06 1.37E-10 1.80E-07 3.99E-10 1.80E-07 1.80E-10 1.80E-07 1.80E-10 1.80E-1	NHALATION PAT	HWAY						
Sc Ac EAC for Carcinogens EAC for EAC fo		PEF)						
A-DDD 7,89E-04 7,89E-13 1,93E-10 5,41E-13	EAC = (Ac * E	F * ED) / AT	*for carcinogens,	a conversion	is necessary to	get into proper units, ug/m3		
A-DDD 7,89E-04 7,89E-13 1,93E-10 5,41E-13			Sc		Ac	EAC for	EAC for	
Aluminum 5,34E+03 5,34E-06 1,31E-03 3,65E-06 Arcolor-1254 1,37E-01 1,37E-10 3,35E-08 9,38E-11 Alenzo(a)anthracene 3,45E-01 3,45E-10 8,44E-08 2,36E-10 Benzo(a)pyrene 4,57E-01 4,57E-10 1,12E-07 3,13E-10 Benzo(b)fluoranthene 5,82E-01 5,82E-10 1,42E-07 3,99E-10 Benzo(b)fluoranthene 2,40E-01 2,40E-10 5,87E-08 1,64E-10 Bibenz(a,h)anthracene 1,55E-01 1,55E-10 3,79E-08 1,08E-10 Bicklini 9,97E-04 9,97E-13 2,44E-10 6,83E-13 Bideno(1,2,3-cd)pyrene 4,70E-01 4,70E-10 1,15E-07 3,22E-10 Fon 1,63E+04 1,63E-05 3,98E-03 1,12E-05 Biopproyplbenzene (cumene) 8,31E-01 8,31E-10 2,03E-07 5,69E-10 ead 6,96E+01 6,96E-08 1,70E-05 4,77E-08	Chemical							
1.37E-01 1.37E-10 3.35E-08 9.38E-11	1,4-DDD							
lenzo(a)anthracene 3.45E-01 3.45E-10 8.44E-08 2.36E-10 lenzo(a)pryene 4.57E-01 4.57E-10 1.12E-07 3.13E-10 lenzo(a)pryene 4.57E-01 4.57E-10 1.12E-07 3.13E-10 lenzo(b)fluoranthene 5.82E-01 5.82E-10 1.42E-07 3.99E-10 lenzo(b)fluoranthene 2.40E-01 2.40E-10 5.87E-08 1.64E-10 libenz(a,h)anthracene 1.55E-01 1.55E-10 3.79E-08 1.06E-10 leledirin 9.97E-04 9.97E-13 2.46E-10 6.83E-13 ledeno(1,2,3-cd)pyrene 4.70E-01 4.70E-10 1.15E-07 3.22E-10 lenzo(b)fluoranthene 8.31E-01 8.31E-01 2.03E-07 5.69E-10 lead 6.96E-08 1.70E-05 4.77E-08	Aluminum							
lenzo(a)pyrene 4,57E-01 4,57E-10 1,12E-07 3,13E-10 lenzo(b)fluoranthene 5,82E-01 5,82E-10 1,42E-07 3,99E-10 lenzo(b)fluoranthene 2,40E-01 2,40E-10 5,87E-08 1,64E-10 libenzo(k)fluoranthene 1,55E-01 1,55E-10 3,79E-08 1,06E-10 loleldrin 9,97E-04 9,97E-13 2,44E-10 6,83E-13 deno(1,2,3-cd)pyrene 4,70E-01 4,70E-10 1,15E-07 3,22E-10 on 1,63E+04 1,63E-05 3,98E-03 1,12E-05 sopropylbenzene (cumene) 8,31E-01 8,31E-10 2,03E-07 5,69E-10 lead 6,96E-08 1,70E-05 4,77E-08								
lenzo(b)fluoranthene 5.82E-01 5.82E-10 1.42E-07 3.99E-10 lenzo(b)fluoranthene 2.40E-01 2.40E-10 5.87E-08 1.64E-10 jbbenz(a,h)anthracene 1.55E-01 1.55E-10 3.79E-08 1.08E-10 lbletdrin 9.97E-04 9.97E-13 2.44E-10 6.83E-13 indeno(1,2,3-cd)pyrene 4.70E-01 4.70E-10 1.15E-07 3.22E-10 on 1.63E+04 1.63E-05 3.99E-03 1.12E-05 sopropylbenzene (cumene) 8.31E-01 8.31E-10 2.03E-07 5.69E-10 ead 5.96E+01 6.96E-08 1.70E-05 4.77E-08		ne						
lenzo(k)fluoranthene 2.40E-01 2.40E-10 5.87E-08 1.64E-10 libenz(a,h)anthracene 1.55E-01 1.55E-10 3.79E-08 1.06E-10 leledirin 9.97E-04 9.97E-13 2.44E-10 6.83E-13 indeno(1,2,3-cd)pyrene 4.70E-01 4.70E-10 1.15E-07 3.22E-10 ron 1.63E+04 1.63E-05 3.98E-03 1.12E-05 sopropylbenzene (cumene) 8.31E-01 8.31E-10 2.03E-07 5.69E-10 ead 6.96E+01 6.96E-08 1.70E-05 4.77E-08		ene						
vibenz(a,h)anthracene 1,55E-01 1,55E-10 3,79E-08 1,05E-10 vibeldrin 9,97E-04 9,97E-13 2,44E-10 6,83E-13 videno(1,2,3-cd)pyrene 4,70E-01 4,70E-10 1,15E-07 3,22E-10 ron 1,63E+04 1,63E-05 3,98E-03 1,12E-05 sopropylbenzene (cumene) 8,31E-01 8,31E-10 2,03E-07 5,69E-10 ead 6,96E+01 6,96E-08 1,70E-05 4,77E-08								
bieldrin 9.97E-04 9.97E-13 2.44E-10 6.83E-13 ndeno(1,2,3-cd)pyrene 4.70E-01 4.70E-10 1.15E-07 3.22E-10 ndeno(1,2,3-cd)pyrene 1.63E+04 1.63E-05 3.98E-03 1.12E-05 sopropylbenzene (cumene) 8.31E-01 8.31E-10 2.03E-07 5.69E-10 ead 6.96E+01 6.96E-08 1.70E-05 4.77E-08								
ron 1.63E+04 1.63E-05 3.98E-03 1.12E-05 sopropy benzene (cumene) 8.31E-01 8.31E-10 2.03E-07 5.69E-10 ead 5.96E+01 6.96E-08 1.70E-05 4.77E-08	Dieldrin		9.97E-04		9.97E-13	2,44E-10		
sopropylbenzene (cumene) 8.31E-01 8.31E-10 2.03E-07 5.69E-10 ead 6.96E+01 6.96E-08 1.70E-05 4.77E-08		rene						
ead 5.96E+01 6.96E-08 1.70E-05 4.77E-08	ron	(cumono)						
		(cnusus)						
lapthalene 3.23E-01 3.23E-10 7.90E-08 2.21E-10					6 96F-78	1 70=.05	Δ 77E_08	

TABLE C-8 INTAKE CALCULATIONS FOR SOIL SOUTH OF MARLIN RME - INDUSTRIAL WORKER

SOIL INGESTION	 					
INTAKE = (Sc * IR * I						
	EF * ED * CF) / (BW * AT)					
•						
Parameter Intake	Definition Intake of chemical (mg/kg-day)			Value calculated	Reference	
Sc	Soil concentration (mg/kg)			see data page		
Ac	Air concentration (mg/m^3)			see below		
EAC	Effective air concentration (mg/m²	3)		calculated		
PEF	Particulate Emission Factor (m^3/			1.00E+09	EPA, 2004a	
IR	ingestion rate of soil (mg/day)	3/		50	EPA, 2004a	
SA	Skin surface area (cm2)			3300	EPA, 2004a	
AF	Soil to skin adherence factor (mg/	cm2)		0.2	EPA, 2004a	
ABSd	Dermal absorption fraction (unitles			see chemprop page		
EF	Exposure frequency (day/yr)			250	EPA, 2004a	
ED	Exposure duration (yr)			25	EPA, 2004a	
CF	Conversion factor (kg/mg)			1.00E-06	EPA, 1989	
BW	Body weight (kg)			70	EPA, 1989	
ATc	Averaging time for carcinogens (d			25550	EPA, 1989	
ATnc	Averaging time for noncarcinogen	s (days)		9125	EPA, 1989	
			Sc	Intake for	Intake for	
Chemical				Carcinogens	Noncarcinogens	
4,4-DDD			4.98E-02	8.70E-09	2.44E-08	
Aluminum			6.91E+03	1.21E-03	3,38E-03	
Araclor-1254			7.40E-01	1.29E-07	3.62E-07	
Benzo(a)anthracene			8.59E-01	1.50E-07	4.20E-07	
Benzo(a)pyrene	_		1.01E+00	1.76E-07	4,93E-07	
Benzo(b)fluoranthen			1.26E+00	2.19E-07	6.14E-07	
Benzo(k)fluoranthen			3.78E-01	6.60E-08	1.85E-07	
Dibenz(a,h)anthrace	пе		2.36E-01	4.12E-08	1.15E-07	
Dieldrin			2.10E-03	3,67E-10	1.03E-09	
ndeno(1,2,3-cd)pyre	ane .		7.61E-01	1.33E-07 3.05E-03	3.72E-07	
ron sopropylbenzene (ci	umana)		1.75E+04 8.62E+00	3.05E-03 1.51E-06	8.54E-03 4.22E-06	
Lead	umenej		1.04E+02	1.82E-05	5.09E-05	
Napthalene			2.78E+00	4.85E-07	1.36E-06	
. 10,010.0110			2.7 02 - 00	1.002 07	11002 00	
		ABSd	Sc	Intake for	Intake for	
Chemical		ABSd	Sc	Intake for Carcinogens	Intake for Noncarcinogens	
				Carcinogens	Noncarcinogens	
4,4-DDD		1.30E-01	4.98E-02	Carcinogens 1.49E-08	Noncarcinogens 4.18E-08	
4,4-DDD Aluminum		1.30E-01 1.00E-02	4.98E-02 6.91E+03	Carcinogens 1.49E-08 1.59E-04	Noncarcinogens 4.18E-08 4.47E-04	
4,4-DDD Aluminum Aroclor-1254		1.30E-01 1.00E-02 1.40E-01	4.98E-02 6.91E+03 7.40E-01	1.49E-08 1.59E-04 2.39E-07	4.18E-08 4.47E-04 6.69E-07	
4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene		1.30E-01 1.00E-02 1.40E-01 1.30E-01	4.98E-02 6.91E+03 7.40E-01 8.59E-01	Carcinogens 1.49E-08 1.59E-04 2.39E-07 2.58E-07	4.18E-08 4.47E-04 6.69E-07 7.21E-07	
4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene		1.30E-01 1.00E-02 1.40E-01	4.98E-02 6.91E+03 7.40E-01	1.49E-08 1.59E-04 2.39E-07	4.18E-08 4.47E-04 6.69E-07	
4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(b)fluoranthen Benzo(b)fluoranthen	е	1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01	4.98E-02 6.91E+03 7.40E-01 8.59E-01 1.01E+00	1.49E-08 1.59E-04 2.39E-07 2.58E-07 3.02E-07	4.18E-08 4.47E-04 6.69E-07 7.21E-07 8.46E-07	
4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthen Benzo(k)fluoranthen	e e	1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01	4.98E-02 6.91E+03 7.40E-01 8.59E-01 1.01E+00 1.26E+00	1.49E-08 1.59E-04 2.39E-07 2.58E-07 3.02E-07 3.77E-07	Noncarcinogens 4.18E-08 4.47E-04 6.69E-07 7.21E-07 8.46E-07 1.05E-06	
4,4-DDD Aduminum Aroclor-1254 Benzo(a)anthracene Benzo(b)fluoranthen Benzo(k)fluoranthen Dibenz(a,h)anthracei	e e	1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01	4.98E-02 6.91E+03 7.40E-01 8.59E-01 1.01E+00 1.26E+00 3.78E-01 2.36E-01 2.10E-03	1.49E-08 1.59E-07 2.39E-07 3.02E-07 3.77E-07 1.13E-07 7.08E-08 6.30E-10	Noncarcinogens 4.18E-08 4.47E-04 6.69E-07 7.21E-07 8.46E-07 1.05E-06 3.17E-07 1.98E-07 1.76E-09	
4,4-DDD Aluminum Arcolor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthen Benzo(k)fluoranthen Cliedrin ndeno(1,2,3-cd)pyre	e e	1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01	4.98E-02 6.91E+03 7.40E-01 8.59E-01 1.01E+00 1.26E+00 3.78E-01 2.36E-01 2.10E-03 7.61E-01	1.49E-08 1.59E-04 2.39E-07 2.59E-07 3.02E-07 3.77E-07 1.13E-07 7.08E-08 6.30E-10 2.28E-07	4.18E-08 4.47E-04 6.69E-07 7.21E-07 8.46E-07 1.05E-06 3.17E-07 1.76E-09 6.39E-07	
4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthen Benzo(k)fluoranthen Dibenz(a,h)anthracei Dieldrin ndeno(1,2,3-cd)pyre ron	e e ne vne	1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01	4.98E-02 6.91E+03 7.40E-01 8.59E-01 1.01E+00 1.26E+00 3.78E-01 2.10E-03 7.61E-01 1.75E+04	Carcinogens 1.49E-08 1.59E-04 2.39E-07 2.58E-07 3.02E-07 3.77E-07 1.13E-07 7.08E-08 6.30E-10 2.28E-07 4.03E-04	Noncarcinogens 4.18E-08 4.47E-04 6.69E-07 7.21E-07 8.46E-07 1.05E-06 3.17E-07 1.98E-07 1.76E-09 6.39E-07 1.13E-03	
4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthen- Benzo(k)fluoranthen- Dibenz(a,h)anthracei- Dieldrin ndeno(1,2,3-cd)pyre ron sopropylbenzene (ct	e e ne vne	1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01	4.98E-02 6.91E+03 7.40E-01 8.59E-01 1.01E+00 1.26E+00 3.78E-01 2.36E-01 2.10E-03 7.61E-01 1.75E+04 8.62E+00	1.49E-08 1.59E-04 2.39E-07 2.58E-07 3.02E-07 3.77E-07 1.13E-07 7.08E-08 6.30E-10 2.28E-07 4.03E-04 2.58E-06	Noncarcinogens 4.18E-08 4.47E-04 6.69E-07 7.21E-07 8.46E-07 1.05E-06 3.17E-07 1.98E-07 1.76E-09 6.39E-07 1.13E-03 7.24E-06	
4,4-DDD Aluminum Arcolor-1254 Benzo(a)anthracene Benzo(a)fluoranthen Benzo(k)fluoranthen Benzo(k)fluoranth	e e ne vne	1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.00E-02 1.30E-01	4.98E-02 6.91E+03 7.40E-01 8.59E-01 1.01E+00 3.78E-01 2.36E-01 2.10E-03 7.61E-01 1.75E+04 8.62E+00 1.04E+02	Carcinogens 1.49E-08 1.59E-04 2.39E-07 2.58E-07 3.02E-07 3.77E-07 1.13E-07 7.08E-08 6.30E-10 2.28E-07 4.03E-04 2.58E-06 2.40E-06	Noncarcinogens 4.18E-08 4.47E-04 6.69E-07 7.21E-07 8.46E-07 1.05E-06 3.17E-07 1.98E-07 1.76E-09 6.39E-07 1.13E-03 7.24E-06 6.72E-06	
4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthen- Benzo(k)fluoranthen- Dibenz(a,h)anthracei Dieldrin Indeno(1,2,3-cd)pyre Iron Isopropylbenzene (ct Lead Napthalene	e e ne vne umene)	1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01	4.98E-02 6.91E+03 7.40E-01 8.59E-01 1.01E+00 1.26E+00 3.78E-01 2.36E-01 2.10E-03 7.61E-01 1.75E+04 8.62E+00	1.49E-08 1.59E-04 2.39E-07 2.58E-07 3.02E-07 3.77E-07 1.13E-07 7.08E-08 6.30E-10 2.28E-07 4.03E-04 2.58E-06	Noncarcinogens 4.18E-08 4.47E-04 6.69E-07 7.21E-07 8.46E-07 1.05E-06 3.17E-07 1.98E-07 1.76E-09 6.39E-07 1.13E-03 7.24E-06	
4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthen Benzo(k)fluoranthen Dibenz(a,h)anthracei Dieldrin indeno(1,2,3-cd)pyre iron Isopropylbenzene (ct Lead Napthalene	e e ne one umene)	1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.00E-02 1.30E-01	4.98E-02 6.91E+03 7.40E-01 8.59E-01 1.01E+00 3.78E-01 2.36E-01 2.10E-03 7.61E-01 1.75E+04 8.62E+00 1.04E+02	Carcinogens 1.49E-08 1.59E-04 2.39E-07 2.58E-07 3.02E-07 3.77E-07 1.13E-07 7.08E-08 6.30E-10 2.28E-07 4.03E-04 2.58E-06 2.40E-06	Noncarcinogens 4.18E-08 4.47E-04 6.69E-07 7.21E-07 8.46E-07 1.05E-06 3.17E-07 1.98E-07 1.76E-09 6.39E-07 1.13E-03 7.24E-06 6.72E-06	
4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Diebenz(a,h)anthracei Dieldrin Indeno(1,2,3-cd)pyre Iron Isopropylbenzene (ct Lead Napthalene INHALATION PATHV Ac = Sc*(1/PE	e e ne vne umene) WAY	1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.00E-02 1.30E-01 1.00E-02	4.98E-02 6.91E+03 7.40E-01 8.59E-01 1.01E+00 1.28E+00 3.78E-01 2.36E-01 2.10E-03 7.61E-01 1.75E+04 8.62E+00 1.04E+02 2.78E+00	Carcinogens 1.49E-08 1.59E-04 2.39E-07 2.58E-07 3.02E-07 3.77E-07 1.13E-07 7.08E-08 6.30E-10 2.28E-07 4.03E-04 2.58E-06 2.40E-06	Noncarcinogens 4.18E-08 4.47E-04 6.69E-07 7.21E-07 8.46E-07 1.05E-06 3.17E-07 1.98E-07 1.76E-09 6.39E-07 1.13E-03 7.24E-06 6.72E-06	
4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(k)fluoranthen Benzo(k)fluoranthen Dibenz(a,h)anthracei Dieldrin Indeno(1,2,3-cd)pyre Isopropylbenzene (ct Lead Napthalene INHALATION PATHV Ac = Sc*(1/PIEAC = (Ac*EF*	e e ne vne umene) WAY	1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.00E-02 1.30E-01 1.00E-02	4.98E-02 6.91E+03 7.40E-01 8.59E-01 1.01E+00 1.28E+00 3.78E-01 2.36E-01 2.10E-03 7.61E-01 1.75E+04 8.62E+00 1.04E+02 2.78E+00	Carcinogens 1.49E-08 1.59E-04 2.39E-07 2.59E-07 3.02E-07 3.07E-07 1.13E-07 7.08E-08 6.30E-10 2.28E-07 4.03E-04 2.58E-06 2.40E-06 8.32E-07	Noncarcinogens 4.18E-08 4.47E-04 6.69E-07 7.21E-07 8.46E-07 1.05E-06 3.17E-07 1.98E-07 1.76E-09 6.39E-07 1.13E-03 7.24E-06 6.72E-06 2.33E-06	
4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Diebenz(a,h)anthracei Dieldrin Indeno(1,2,3-cd)pyre Iron Isopropylbenzene (ct Lead Napthalene INHALATION PATHV Ac = Sc*(1/PE	e e ne ene umene) WAY EF) ED) / AT *for carcinogens,	1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.00E-02 1.30E-01 1.00E-02	4.98E-02 6.91E+03 7.40E-01 8.59E-01 1.01E+00 1.28E+00 3.78E-01 2.10E-03 7.61E-01 1.75E+04 8.62E+00 1.04E+02 2.78E+00	Carcinogens 1.49E-08 1.59E-04 2.39E-07 2.58E-07 3.02E-07 3.77E-07 1.13E-07 7.08E-08 6.30E-10 2.28E-07 4.03E-04 2.58E-06 2.40E-06 8.32E-07	Noncarcinogens 4.18E-08 4.47E-04 6.69E-07 7.21E-07 8.46E-07 1.05E-06 3.17E-07 1.98E-07 1.76E-09 6.39E-07 1.13E-03 7.24E-06 6.72E-06 2.33E-06	
4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthen- Benzo(k)fluoranthen- Dibenz(a,h)anthracei Dieldrin Indeno(1,2,3-cd)pyre- Iron Sopropylbenzene (ct. Lead Napthalene INHALATION PATHV Ac = Sc * (1/PIEAC = (Ac * EF *	e e e ne e e ne e e e ne e e e e e e e	1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.00E-02 1.30E-01 1.00E-02	4.98E-02 6.91E+03 7.40E-01 8.59E-01 1.01E+00 1.26E+00 3.78E-01 2.36E-01 2.10E-03 7.61E-01 1.75E+04 8.62E+00 1.04E+02 2.78E+00 is necessary to ge	Carcinogens 1.49E-08 1.59E-04 2.39E-07 2.58E-07 3.02E-07 3.77E-07 1.13E-07 7.08E-08 6.30E-10 2.28E-07 4.03E-04 2.58E-06 2.40E-08 8.32E-07 at into proper units, ug/m3 EAC for Carcinogens 7.09E-10	Noncarcinogens 4.18E-08 4.47E-04 6.69E-07 7.21E-07 8.46E-07 1.05E-06 3.17E-07 1.98E-07 1.76E-09 6.39E-07 1.13E-03 7.24E-06 6.72E-06 2.33E-06	
4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(a)yrene Benzo(b)fluoranthen Benzo(k)fluoranthen Ben	e e e ne	1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.00E-02 1.30E-01 1.00E-02	4.98E-02 6.91E+03 7.40E-01 8.59E-01 1.01E+00 1.2eE+00 3.78E-01 2.36E-01 2.10E-03 7.61E-01 1.75E+04 8.62E+00 1.04E+02 2.78E+00 is necessary to ge	Carcinogens 1.49E-08 1.59E-04 2.39E-07 2.59E-07 3.02E-07 3.77E-07 1.13E-07 7.08E-08 6.30E-10 2.28E-07 4.03E-04 2.59E-06 2.40E-06 8.32E-07	Noncarcinogens 4.18E-08 4.47E-04 6.69E-07 7.21E-07 8.46E-07 1.05E-06 3.17E-07 1.98E-07 1.76E-09 6.39E-07 1.13E-03 7.24E-06 6.72E-06 2.33E-06	
4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(c)fluoranthene Benzo(c)fluoranthene Benzo(c)fluoranthene Benzo(k)fluoranthene Coloria (1,2,3-cd)pyre ron sopropylbenzene (cu .ead Napthalene NHALATION PATHU Ac = Sc * (1/PI EAC = (Ac * EF * Chemical 4,4-DDD Aluminum Aroclor-1254	e e e ne	1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.00E-02 1.30E-01 1.00E-02	4.98E-02 6.91E+03 7.40E-01 8.59E-01 1.01E+00 1.26E+00 3.78E-01 2.10E-03 7.61E-01 1.75E+04 8.62E+00 1.04E+02 2.78E+00 is necessary to ge	Carcinogens 1.49E-08 1.59E-04 2.39E-07 2.59E-07 3.02E-07 3.77E-07 1.13E-07 7.08E-08 6.30E-10 2.28E-07 4.03E-04 2.58E-06 2.40E-06 8.32E-07	Noncarcinogens 4.18E-08 4.47E-04 6.69E-07 7.21E-07 8.46E-07 1.05E-06 3.17E-07 1.98E-07 1.76E-09 6.39E-07 1.13E-03 7.24E-06 6.72E-06 2.33E-06 EAC for Noncarcinogens 1.99E-12 4.07E-06 4.97E-10	
4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthen- Benzo(k)fluoranthen- Benzo(k)fluoranthen- Dieldrin ndeno(1,2,3-cd)pyrer on sopropylbenzene (ct. ead Napthalene NHALATION PATHV Ac = Sc * (1/Pt EAC = (Ac * EF * Chemical 4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene	e e e ne	1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.00E-02 1.30E-01 1.00E-02	4.98E-02 6.91E+03 7.40E-01 8.59E-01 1.01E+00 1.26E+00 3.78E-01 2.36E-01 2.10E-03 7.61E-01 1.75E+04 8.62E+00 1.04E+02 2.78E+00 is necessary to ge Ac	Carcinogens 1.49E-08 1.59E-04 2.39E-07 2.59E-07 3.02E-07 3.02E-07 1.13E-07 7.08E-08 6.30E-10 2.28E-07 4.03E-04 2.58E-06 2.40E-08 8.32E-07 at into proper units, ug/m3 EAC for Carcinogens 7.09E-10 1.45E-03 1.78E-03 2.96E-07	Noncarcinogens 4.18E-08 4.47E-04 6.69E-07 7.21E-07 8.46E-07 1.05E-06 3.17E-07 1.98E-07 1.76E-09 6.39E-07 1.13E-03 7.24E-06 6.72E-06 2.33E-06 EAC for Noncarcinogens 1.99E-12 4.07E-06 4.97E-10 8.29E-10	
4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthen Benzo(k)fluoranthen Benzo(k)fluoranthen Dibenz(a,h)anthracei Dieldrin ndeno(1,2,3-cd)pyre ron sopropylbenzene (cu _ead Napthalene NHALATION PATHV Ac = Sc * (1/PI EAC = (Ac * EF * Chemical 4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene	e e e ne	1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.00E-02 1.30E-01 1.00E-02	4.98E-02 6.91E+03 7.40E-01 8.59E-01 1.01E+00 1.2eE+00 3.78E-01 2.36E-01 2.10E-03 7.61E-01 1.75E+04 8.62E+00 1.04E+02 2.78E+00 Ac 2.90E-12 5.95E-06 7.26E-10 1.21E-09 1.46E-09	Carcinogens 1.49E-08 1.59E-04 2.39E-07 2.59E-07 3.02E-07 3.77E-07 1.13E-07 7.08E-08 6.30E-10 2.28E-07 4.03E-04 2.59E-06 2.40E-06 8.32E-07 tt into proper units, ug/m3 EAC for Carcinogens 7.09E-10 1.45E-03 1.78E-07 2.96E-07 3.56E-07	Noncarcinogens 4.18E-08 4.47E-04 6.69E-07 7.21E-07 8.46E-07 1.05E-06 3.17E-07 1.98E-07 1.76E-09 6.39E-07 1.13E-03 7.24E-06 6.72E-06 2.33E-06 EAC for Noncarcinogens 1.99E-12 4.07E-06 4.97E-10 8.29E-10 9.98E-10	
4,4-DDD Aluminum Aroclor-1254 Benzo(a)anlthracene Benzo(a)pyrene Benzo(b)fluoranthen- Benzo(k)fluoranthen- Benzo(k)fluoranthen- Benzo(k)fluoranthen- Benzo(k)fluoranthen- Colledrin ndeno(1,2,3-cd)pyre ron sopropylbenzene (cu .ead Napthalene NHALATION PATHU Ac = Sc * (1/PI EAC = (Ac * EF * Chemical 4,4-DDD Aluminum Aroclor-1254 Benzo(a)anttracene Benzo(b)fluoranthen-	e e e ne	1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.00E-02 1.30E-01 1.00E-02	4.98E-02 6.91E+03 7.40E-01 8.59E-01 1.01E+00 1.26E+00 3.78E-01 2.10E-03 7.61E-01 1.75E+04 8.62E+00 1.04E+02 2.78E+00 Ac 2.90E-12 5.95E-08 7.26E-10 1.21E-09 1.46E-09 1.64E-09	Carcinogens 1.49E-08 1.59E-04 2.39E-07 2.58E-07 3.02E-07 3.77E-07 1.13E-07 7.08E-08 6.30E-10 2.28E-07 4.03E-04 2.58E-06 2.40E-06 8.32E-07 at into proper units, ug/m3 EAC for Carcinogens 7.09E-10 1.45E-03 1.70E-07 2.96E-07 3.56E-07 4.01E-07	Noncarcinogens 4.18E-08 4.47E-04 6.69E-07 7.21E-07 8.46E-07 1.05E-06 3.17E-07 1.98E-07 1.13E-03 7.24E-06 6.72E-06 2.33E-06 EAC for Noncarcinogens 1.99E-12 4.07E-06 4.97E-10 8.29E-10 9.98E-10 1.12E-09	
4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene NAC = Cot (1/Pf EAC = Cot (1/Pf	e e e ne me	1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.00E-02 1.30E-01 1.00E-02	4.98E-02 6.91E+03 7.40E-01 8.59E-01 1.01E+00 1.26E+00 3.78E-01 2.36E-01 1.75E+04 8.62E+00 1.04E+02 2.78E+00 Ac 2.90E-12 5.95E-08 7.26E-10 1.21E-09 1.46E-09 1.64E-09 6.51E-10	Carcinogens 1.49E-08 1.59E-04 2.39E-07 2.59E-07 3.02E-07 3.02E-07 1.13E-07 7.09E-08 6.30E-10 2.29E-07 4.03E-06 2.40E-06 8.32E-07 t into proper units, ug/m3 EAC for Carcinogens 7.09E-10 1.45E-03 1.78E-07 2.96E-07 4.01E-07 1.59E-07	Noncarcinogens 4.18E-08 4.47E-04 6.69E-07 7.21E-07 8.46E-07 1.05E-06 3.17E-07 1.98E-07 1.76E-09 6.39E-07 1.13E-03 7.24E-06 6.72E-06 2.33E-06 EAC for Noncarcinogens 1.99E-12 4.07E-06 4.97E-10 8.29E-10 9.98E-10 1.12E-09 4.46E-10	
4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthen Benzo(k)fluoranthen Benzo(k)fluoranthen Dibenz(a,1)anthracei Dieldrin ndeno(1,2,3-cd)pyre ron sopropylbenzene (ci aead NHALATION PATHV Ac = Sc * (1/PIE EAC = (Ac * EF * Chemical 4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(b)fluoranthene Benzo(b)fluoranthene Dibenz(a,h)anthracene	e e e ne	1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.00E-02 1.30E-01 1.00E-02	4.98E-02 6.91E+03 7.40E-01 8.59E-01 1.01E+00 1.2eE+00 3.78E-01 2.36E-01 2.10E-03 7.61E-01 1.75E+04 8.62E+00 1.04E+02 2.78E+00 Ac 2.90E-12 5.95E-06 7.26E-10 1.21E-09 1.46E-09 1.46E-09 6.51E-10 3.63E-10	Carcinogens 1.49E-08 1.59E-04 2.39E-07 2.59E-07 3.02E-07 3.77E-07 1.13E-07 7.08E-08 6.30E-10 2.28E-07 4.03E-04 2.59E-06 2.40E-06 8.32E-07 tt into proper units, ug/m3 EAC for Carcinogens 7.09E-10 1.45E-03 1.79E-07 2.96E-07 3.56E-07 4.01E-07 1.59E-07 8.88E-08	Noncarcinogens 4.18E-08 4.47E-04 6.69E-07 7.21E-07 8.46E-07 1.05E-06 3.17E-07 1.98E-07 1.13E-03 7.24E-06 6.72E-06 2.33E-06 EAC for Noncarcinogens 1.99E-12 4.07E-06 4.97E-10 8.29E-10 9.98E-10 1.12E-09 4.46E-10 2.49E-10	
4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Dieldrin ndeno(1,2,3-cd)pyre ron sopropylbenzene (cu .ead Napthalene NHALATION PATHU Ac = Sc * (1/PI EAC = (Ac * EF * Chemical 4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Dieldrin Dieldrin	e e e ne	1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.00E-02 1.30E-01 1.00E-02	4.98E-02 6.91E+03 7.40E-01 8.59E-01 1.01E+00 1.26E+00 3.78E-01 2.10E-03 7.61E-01 1.75E+04 8.62E+00 1.04E+02 2.78E+00 Ac 2.90E-12 5.95E-08 7.26E-10 1.21E-09 1.46E-09 1.64E-09 6.51E-10 3.63E-10 3.00E-12	Carcinogens 1.49E-08 1.59E-04 2.39E-07 2.59E-07 3.02E-07 3.77E-07 1.13E-07 7.08E-08 6.30E-10 2.28E-07 4.03E-04 2.58E-06 2.40E-06 8.32E-07 at into proper units, ug/m3 EAC for Carcinogens 7.09E-10 1.45E-03 1.78E-07 2.96E-07 4.01E-07 1.59E-07 8.88E-08 7.34E-10	Noncarcinogens 4.18E-08 4.47E-04 6.69E-07 7.21E-07 8.46E-07 1.05E-06 3.17E-07 1.98E-07 1.13E-03 7.24E-06 6.72E-06 2.33E-06 EAC for Noncarcinogens 1.99E-12 4.07E-06 4.97E-10 8.29E-10 9.98E-10 1.12E-09 4.46E-10 2.49E-10 2.05E-12	
4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Dieldrin Indeno(1,2,3-cd)pyre Iron Sopropylbenzene (ct Lead Napthalene INHALATION PATHV Ac = Sc * (1/Pf EAC = (Ac * EF * Chemical 4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(b)fluoranthene Benzo(k)fluoranthene	e e e ne ne me	1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.00E-02 1.30E-01 1.00E-02	4.98E-02 6.91E+03 7.40E-01 8.59E-01 1.01E+00 1.26E+00 3.78E-01 2.36E-01 2.10E-03 7.61E-01 1.75E+04 8.62E+00 1.04E+02 2.78E+00 Ac 2.90E-12 5.95E-06 7.26E-10 1.21E-09 1.64E-09 6.51E-10 3.63E-10 3.00E-12 1.12E-09	Carcinogens 1.49E-08 1.59E-04 2.39E-07 2.59E-07 3.02E-07 3.02E-07 1.13E-07 7.09E-08 6.30E-10 2.29E-07 4.03E-06 2.40E-06 8.32E-07 *Into proper units, ug/m3 EAC for Carcinogens 7.09E-10 1.45E-03 1.78E-07 2.96E-07 4.01E-07 1.59E-07 8.88E-08 7.34E-10 2.73E-07	Noncarcinogens 4.18E-08 4.47E-04 6.69E-07 7.21E-07 8.46E-07 1.05E-06 3.17E-07 1.98E-07 1.76E-09 6.39E-07 1.13E-03 7.24E-06 6.72E-06 2.33E-06 EAC for Noncarcinogens 1.99E-12 4.07E-06 4.97E-10 8.29E-10 9.98E-10 1.12E-09 4.46E-10 2.49E-10 2.05E-12 7.64E-10	
4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(a)pyre fron Isopropylbenzene (ci Acad Indianal Indian	E e e ne	1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.00E-02 1.30E-01	4.98E-02 6.91E+03 7.40E-01 8.59E-01 1.01E+00 1.2eE+00 3.78E-01 2.36E-01 2.10E-03 7.61E-01 1.75E+04 8.62E+00 1.04E+02 2.78E+00 Ac 2.90E-12 5.95E-06 7.26E-10 1.21E-09 1.46E-09 1.46E-09 1.64E-09 6.51E-10 3.00E-12 1.12E-09	Carcinogens 1.49E-08 1.59E-04 2.39E-07 2.58E-07 3.02E-07 3.77E-07 1.13E-07 7.08E-08 6.30E-10 2.28E-07 4.03E-04 2.58E-06 2.40E-06 8.32E-07 at into proper units, ug/m3 EAC for Carcinogens 7.09E-10 1.45E-03 1.78E-07 2.96E-07 3.56E-07 4.01E-07 1.59E-07 8.88E-08 7.34E-10 2.73E-07 4.37E-03	Noncarcinogens 4.18E-08 4.47E-04 6.69E-07 7.21E-07 8.46E-07 1.05E-06 3.17E-07 1.98E-07 1.13E-03 7.24E-06 6.72E-06 2.33E-06 EAC for Noncarcinogens 1.99E-12 4.07E-06 4.97E-10 8.29E-10 9.98E-10 1.12E-09 4.46E-10 2.49E-10 2.05E-12 7.64E-10 1.22E-05	-
4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(k)fluoranthen Benzo(k)fluoranthen Dibenz(a,h)anthracei Dieldrin Indeno(1,2,3-cd)pyre Isopropylbenzene (ct Lead Napthalene INHALATION PATHV Ac = Sc*(1/PIEAC = (Ac*EF*	E e e ne	1.30E-01 1.00E-02 1.40E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.30E-01 1.00E-02 1.30E-01	4.98E-02 6.91E+03 7.40E-01 8.59E-01 1.01E+00 1.26E+00 3.78E-01 2.36E-01 2.10E-03 7.61E-01 1.75E+04 8.62E+00 1.04E+02 2.78E+00 Ac 2.90E-12 5.95E-06 7.26E-10 1.21E-09 1.64E-09 6.51E-10 3.63E-10 3.00E-12 1.12E-09	Carcinogens 1.49E-08 1.59E-04 2.39E-07 2.59E-07 3.02E-07 3.02E-07 1.13E-07 7.09E-08 6.30E-10 2.29E-07 4.03E-06 2.40E-06 8.32E-07 *Into proper units, ug/m3 EAC for Carcinogens 7.09E-10 1.45E-03 1.78E-07 2.96E-07 4.01E-07 1.59E-07 8.88E-08 7.34E-10 2.73E-07	Noncarcinogens 4.18E-08 4.47E-04 6.69E-07 7.21E-07 8.46E-07 1.05E-06 3.17E-07 1.98E-07 1.76E-09 6.39E-07 1.13E-03 7.24E-06 6.72E-06 2.33E-06 EAC for Noncarcinogens 1.99E-12 4.07E-06 4.97E-10 8.29E-10 9.98E-10 1.12E-09 4.46E-10 2.49E-10 2.05E-12 7.64E-10	

TABLE C-9
EXPOSURE POINT CONCENTATION (mg/kg) FOR COPCs
SOIL NORTH OF MARLIN AVE.

Parameter	Average	95% UCL	Statistic Used
1,2-Dichloroethane	0.0106	0.103	99% Chebyshev
Aluminum	11971	13092	95% Student's-t
Aroclor-1254	0.0056	. 0.0168	95% Chebyshev
Benzo(a)anthracene	0.068	0.464	99% Chebyshev
Benzo(a)pyrene	0.0922	0.554	99% Chebyshev
Benzo(b)fluoranthene	0.12	0.649	99% Chebyshev
Dibenz(a,h)anthracene	0.0384	0.177	99% Chebyshev
Indeno(1,2,3-cd)pyrene	0.133	0.577	99% Chebyshev
Iron	17531	21765	95% Student's-t
Tetrachloroethene	0.0127	0.129	99% Chebyshev

TABLE C-10 EXPOSURE POINT CONCENTATION (mg/kg) FOR COPCs SURFACE SOIL NORTH OF MARLIN AVE.

Parameter	Average	95% UCL	Statistic Used
1,2-Dichloroethane			
Aluminum	10673	12185	95% Student's-t
Aroclor-1254	0.0037	0.0077	95% Chebyshev
Benzo(a)anthracene	0.0715	0.72	99% Chebyshev
Benzo(a)pyrene	0.114	0.888	99% Chebyshev
Benzo(b)fluoranthene	0.146	0.352	95% Adjusted Gamma
Dibenz(a,h)anthracene	0.0471	0.284	99% Chebyshev
Indeno(1,2,3-cd)pyrene	0.151	0.969	99% Chebyshev
Iron	19477	41127	95% Chebyshev
Tetrachloroethene	0	0	NS

Notes:

NS -- Not Sampled in surface soil.

TABLE C-11
CALCULATION OF OUTDOOR AIR CONCENTRATION FROM EXPOSED SOIL - VOLATILE EMISSIONS

	De =	H' '		^2 + Dw * nw^3.33/ nw + na * H'	n^2		Kd = Foc * Koc					
	VF =		De * T)^0.5 * Q * Pb * De) * CF	/C		-	na = n - nw Source: EPA, 1996					
Parameter	Definition						Value	Reference				
Da	Diffusion co	efficent in ai	r (cm^2/sec)				see below	EPA, 1996				
Dw			ater (cm^2/sec)				see below	EPA, 1996				
De	Effective dif	fusion coeffi	cient (cm^2/sec)			see below	calculated					
VF	Volatilization						see below	calculated				
n	Total porosi	ty (dimensio	nless)				0.35	TNRCC, 1993				
nw	Water filled	soil porosity	(dimensionless)				0.15	EPA, 1996				
nia			nensionless)				0.2	n-nw				
H'	Henry's law	constant (di	mensionless)	•			see below	TRRP				
Pb	Dry Bulk De	nsity (g/cm^	3)				1.5	EPA, 1996				
Foc	Fraction org	anic carbon	(g/g)				0.006	EPA, 1996				
Koc	Organic carl	bon-water p	artition coefficien	t (cm^3/g)			see below	EPA, 1996				
Kd	Soil-water p	artition coef	icient (cm^3/g)	, -,			see below	calculated				
CF	Conversion	factor (cm ²	2/m^2)				1.00E+04	standard				
Q/C				ource (g/m^2-s per k	g/m^3)		see below	EPA, 1996				
Т	Exposure in	terval (sec)			- ,		see below	EPA, 1996				
Chemical	Da	Dw	De	Н'	Koc	Kd	Q/C	Т	VF			
1,2,3-Trichloropropane	7.10E-02	7.90E-06	7.86E-05	1.58E-02	4.37E+01	0.2622	68.81	9.50E+08	1.41E+04			
Tetrachloroethene	7.20E-02	8.20E-06	6.84E-03	7.65E+00	1.55E+02	0.93	68.81	9.50E+08	1.51E+03			
Trichloroethene	7.90E-02	9.10E-06	7.47E-04	4.28E-01	1.66E+02	1.00	68.81	9.50E+08	4.58E+03			

TABLE C-12 INTAKE CALCULATIONS FOR SOIL NORTH OF MARLIN AVERAGE -- YOUTH TRESPASSER

SOIL INGESTION				<u> </u>		
INTAKE = (Sc * IR * E	F * ED * CF) / (BW '	AT)				
Parameter	Definition				Value	Reference
Intake	Intake of chemical (-		calculated	
Sc	Soil concentration (see data page	
Ac	Air concentration (n				see below	
EAC	Effective air concer	, •	•		calculated	ED4 0004
PEF	Particulate Emissio	•	g)		1.00E+09	EPA, 2004a
VF IR	Volatilization Factor				calculated 100	EPA, 1996 TNRCC, 1998
SA	Ingestion rate of soil				3500	TNRCC, 1998
AF	Soil to skin adherer		m2)		0.1	TNRCC, 1998
ABSd	Dermal absorption				see chemprop page	
EF	Exposure frequency		,		25	professional judgment
ED	Exposure duration				6	professional judgment
CF	Conversion factor (1.00E-06	EPA, 1989
BW	Body weight (kg)				40	EPA, 1991a
ATc	Averaging time for	carcinogens (da	ys)		25550	EPA, 1989
ATnc	Averaging time for r	noncarcinogens	(days)		9125	EPA, 1989
				Sc	Intake for	Intake for
Chemical					Carcinogens	Noncarcinogens
1.2 Diablorasthans				1.06E.00	4 505 40	4 365-10
1,2-Dichloroethane				1.06E-02 1.20E+04	1.56E-10 1.76E-04	4.36E-10 4.92E-04
Aluminum Aroclor-1254				1.20E+04 5.60E-03	1.76E-04 8.22E-11	4.92E-04 2.30E-10
Arocior-1254 Benzo(a)anthracene				6.80E-03	9.98E-10	2.79E-09
Benzo(a)antirracene Benzo(a)pyrene				9.22E-02	9.96E-10 1,35E-09	3.79E-09
Benzo(b)fluoranthene				1.20E-01	1,76E-09	4.93E-09
Dibenz(a,h)anthracen				3.84E-02	5.64E-10	1.58E-09
Indeno(1,2,3-cd)pyrer				1.33E-01	1.95E-09	5.47E-09
Iron				1.75E+04	2.57E-04	7.20E-04
Tetrachloroethene				1.27E-02	1.86E-10	5.22E-10
DERMAL CONTACT						
INTAKE = (Sc * SA *	AF * ABSd * EF * EC) * CF) / (BW * A	AT)			
Chemical		-	ABSd	Sc	Intake for Carcinogens	Intake for Noncarcinogens
1,2-Dichloroethane			1.30E-01	1.06E-02	7.08E-11	1.98E-10
Aluminum			1.00E-02	1.20E+04	6.15E-06	1.72E-05
Aroclor-1254			1.30E-01	5.60E-03	3.74E-11	1.05E-10
Benzo(a)anthracene			1.30E-01	6,80E-02	4.54E-10	1.27E-09
Benzo(a)pyrene			1.30E-01	9.22E-02	6.16E-10	1,72E-09
Benzo(b)fluoranthene			1,30E-01	1.20E-01	8.01E-10	2.24E-09
Dibenz(a,h)anthracen			1.30E-01	3.84E-02	2.56E-10	7.18E-10
Indeno(1,2,3-cd)pyrer			1.30E-01	1.33E-01	8,88E-10	2.49E-09
Iron	-		1.00E-02	1.75E+04	9.01E-06	2.52E-05
Tetrachloroethene			1.30E-01	1.27E-02	8.48E-11	2.37E-10
INHALATION PATHV	VAY					
Ac = Sc * (1/PE EAC = (Ac * EF *		or carcinogens,	a conversion	is necessary to	o get into proper units, ug/m3	
Chemical		Şc	VF	Ac	EAC for Carcinogens	EAC for Noncarcinogens
1,2-Dichloroethane		1.06E-02	1.41E+04	7.50E-07	4.40E-06	1,23E-08
Aluminum		1.07E+04		1.07E-05	6.27E-05	1.75E-07
Aroclor-1254		3.70E-03		3.70E-12	2.17E-11	6.08E-14
Benzo(a)anthracene		7.15E-02		7.15E-11	4.20E-10	1.18E-12
Benzo(a)pyrene		1.14E-01		1.14E-10	6.69E-10	1.87E-12
Benzo(b)fluoranthene		1.46E-01		1.46E-10	8.57E-10	2.40E-12
Dibenz(a,h)anthracen		4.71E-02		4.71E-11	2.77E-10	7.74E-13
indeno(1,2,3-cd)pyrer		1.51E-01		1.51E-10	8.86E-10	2.48E-12
		1,016-01		1,01,40	0,000,10	
		1.95F+04		1.95F-05	1.14F-04	3.20E-07
Iron Tetrachloroethene		1.95E+04 1.27E-02	1.51E+03	1.95E-05 8.38E-06	1.14E-04 4.92E-05	3.20E-07 1.38E-07

TABLE C-13 INTAKE CALCULATIONS FOR SOIL NORTH OF MARLIN RME -- YOUTH TRESPASSER (age 6 to 18)

SOIL INGESTION						
INTAKE = (Sc * IR * E	F * ED * CF) / (BV	V * AT)				
Parameter	Definition				Value	Reference
Intake	Intake of chemica	al (mg/kg-day)			calculated	
Sc	Soil concentration				see data page	
Ac	Air concentration				see below	
EAC		entration (mg/m^3	3)		calculated	En. 1000
VF	Volatilization Fac				calculated	EPA, 1996
PEF		sion Factor (m^3/k	g)		1.00E+09	EPA, 2004a
IR SA	Ingestion rate of s Skin surface area				100 3500	TNRCC, 1998 TNRCC, 1998
AF		rence factor (mg/ci	m2\		0.1	TNRCC, 1998
ABSd		n fraction (unitless			see chemprop page	1111100, 1000
EF	Exposure frequer		•		50	TNRCC, 1998
ED	Exposure duration				12	TNRCC, 1998
CF	Conversion facto	r (kg/mg)			1.00E-06	EPA, 1989
BW	Body weight (kg)				40	EPA, 1991a
ATc	Averaging time for	or carcinogens (da	ys)		25550	EPA, 1989
ATnc	Averaging time for	or noncarcinogens	(days)		9125	EPA, 1989
Chemical				Sc	Intake for Carcinogens	Intake for Noncarcinogens
4 0 00 11				4 005 54		4.007.00
1,2-Dichloroethane				1.03E-01	6.05E-09	1.69E-08
Aluminum				1.31E+04	7.69E-04	2.15E-03
Arocior-1254				1.68E-02 4.64E-01	9.86E-10 2.72E-08	2,76E-09 7.63E-08
Benzo(a)anthracene Benzo(a)pyrene				5.54E-01	3,25E-08	9.11E-08
Benzo(b)fluoranthene				6.49E-01	3.81E-08	1.07E-07
Dibenz(a,h)anthracen				1.77E-01	1.04E-08	2.91E-08
indeno(1,2,3-cd)pyrer				5.77E-01	3.39E-08	9.48E-08
iron				2.18E+04	1.28E-03	3.58E-03
Tetrachloroethene				1.29E-01	7.57E-09	2.12E-08
·			ABSd	Sc	Intake for	Intake for
Chemical					Carcinogens	Noncarcinogens
1.2-Dichloroethane			1.30E-01	1.03E-01	2,75E-09	7.70E-09
Aluminum			1.00E-02	1.31E+04	2.69E-05	7.53E-05
Aroclor-1254			1.30E-01	1.68E-02	4.49E-10	1.26E-09
Benzo(a)anthracene			1.30E-01	4.64E-01	1.24E-08	3.47E-08
Benzo(a)pyrene			1.30E-01	5.54E-01	1.48E-08	4.14E-08
Benzo(b)fluoranthene			1.30E-01	6.49E-01	1.73E-08	4.85E-08
Dibenz(a,h)anthracen	е		1.30E-01	1.77E-01	4.73E-09	1.32E-08
Indeno(1,2,3-cd)pyrer	ne		1.30E-01	5.77E-01	1.54E-08	4.32E-08
Iron			1.00E-02	2.18E+04	4.47E-05	1.25E-04
Tetrachloroethene			1.30E-01	1.29E-01	3.45E-09	9.65E-09
INHALATION PATHV Ac = Sc * (1/PE EAC = (Ac * EF *	F+1NF)	*for carcinogens,	a conversion	is necessary	to get into proper units, ug/m3	
Chemical		Sc	VF	Ac	EAC for Carcinogens	EAC for Noncarcinogens
4 2 Diables 45		4.000.04	4.445.04	7 205 06	4 745 04	4 705 07
1,2-Dichloroethane		1.03E-01 1.22E+04	1.41E+04	7.29E-06 1.22E-05	1.71E-04 2.86E-04	4.79E-07
Aluminum Aroclor-1254		7.70E-03		7.70E-12	2.80E-04 1.81E-10	8.01E-07 5.06E-13
Benzo(a)anthracene		7.70E-03 7.20E-01		7.70E-12 7.20E-10	1.69E-08	4.73E-11
Benzo(a)pyrene		8.88E-01		8.88E-10	2.09E-08	5,84E-11
Benzo(b)fluoranthene		3.52E-01		3.52E-10	8,27E-09	2.31E-11
Dibenz(a,h)anthracen		2.84E-01		2.84E-10	6.67E-09	1.87E-11
Indeno(1,2,3-cd)pyrer		9.69E-01		9.69E-10	2.28E-08	6.37E-11
Iron		4.11E+04		4.11E-05	9.66E-04	2.70E-06
Tetrachloroethene		1,29E-01	1.51E+03	8.52E-05	2.00E-03	5.60E-06

TABLE C-14 INTAKE CALCULATIONS FOR SOIL NORTH OF MARLIN AVERAGE - CONSTRUCTION WORKER

INTAKE = (Sc*IR*EF*ED*CF) / (BW*AT) Parameter Definition Value Reference Intake Intake of chemical (mg/kg-day) calculated Sc Soil concentration (mg/kg) see data page Ac Air concentration (mg/m^3) see below EAC Effective air concentration (mg/m^3) calculated VF Volatilization Factor (m^3/kg) calculated EPA, 1996	SOIL INGESTION					
Parameter	SOIL INGESTION				•	
Intakes Intake of chamical (mg/mg/sday) Calculated see data page as be day and a concentration (mg/mg) Sol concentration (mg/mg) see below calculated FPA, 1096 FPA, 2004 FP	INTAKE = (Sc * IR * E	F * ED * CF) / (BW * AT)				
Intakes Intake of chamical (mg/mg/sday) Calculated see data page as be day and a concentration (mg/mg) Sol concentration (mg/mg) see below calculated FPA, 1096 FPA, 2004 FP	Desembles	Definition			Value	Deference
Sc						Reference
Acc Arconomentation (mg/m²s) EAC Effective air concentration (mg/m²s) VF Votalization Factor (m²s/ag) VFE Particulate Emission Factor (m²s/ag) VFE Notalization						
VF Volalification Factor (m*3/kg)	Ac					
PEF	EAC	Effective air concentration (mg/m	n^3)		calculated	
R	VF	Volatilization Factor (m^3/kg)			calculated	EPA, 1996
SA	PEF	Particulate Emission Factor (m^3	3/kg)		1.00E+09	EPA, 2004a
AE Soil to skin adherence factor (mg/cm2) ABSd Dermal absorption fraction (mg/cm2) ABSd Dermal absorption fraction (mg/cm2) EP Exposure frequency (daylyr) ED Exposure frequency (daylyr) CF Conversion factor (figmig) BW Body weight (circ) Averaging time for carcinogens (days) ATIC Averaging time for arcinogens (days) ATIC Averaging time for noncarchogens (days) ATIC Averaging time for arcinogens (days) ATIC Averaging time for arcinogens (days) AITIC Averaging time for arcinogens (days) AITIC Averaging time for noncarchogens (days) 1,2-Dichtoroethane All Defenda 9,48E-05 Benzo (daylinationacene) Benzo (da						
ABSd Dermal absorption fraction (unitioss) Exposure frequency (daylyn) Exposure duration (yr) 1 professional judgment professional profess						
EF Exposure frequency (daylyr) 90 professional judgment 1 1 1 1 1 1 1 1 1						
ED			ess)			
CF						
BW						
ATC Averaging time for carcinogens (days) ATnc Averaging time for noncarcinogens (days) ATnc Averaging time for noncarcinogens (days) Sc Intake for Carcinogens 1.2-Dichloroethane 1.2						
ATINC Averaging Ilme for noncarcinogens (days) Sc Intake for Carcinogens 1.2-Dichloroethane 1.06E-02 8.80E-11 6.18E-09 Aluminum 1.20E-04 9.94E-05 6.98E-03 Aroclor-1264 9.94E-05 6.98E-08 Benzo(a)ghyrene 9.22E-02 7.86E-10 6.38E-08 Benzo(a)ghyrene 9.22E-02 7.86E-10 6.38E-08 Benzo(a)ghyrene 9.22E-02 3.19E-10 2.23E-08 Indero(1,2.3-d)pyrene 1.33E-01 1.10E-09 7.73E-08 Indero(1,2.3-d)pyrene 1.35E-01 1.05E-02 1.20E-10 1.05E-10 7.33E-09 DERIMAL CONTACT INTAKE = (Sc * SA * AF * ABSd * EF * ED * CF) / (BW * AT) ABSd Sc Intake for Carcinogens Noncarcinogens 1.2-Dichloroethane 1.30E-01 1.06E-02 3.20E-11 2.24E-09 Aluminum 1.00E-02 1.20E-04 2.78E-06 1.98E-04 Aluminum 1.00E-02 1.20E-04 2.78E-06 1.98E-04 Aluminum 1.00E-02 1.20E-04 2.78E-06 1.98E-04 Aluminum 1.30E-01 1.00E-02 3.30E-11 1.98E-01 1.98E-08 Benzo(a)ghurineane 1.30E-01 1.00E-02 3.30E-11 3.9E-01 1.4E-08 Benzo(a)ghurineane 1.30E-01 1.30E-01 3.36E-10 3.4E-09 Benzo(a)ghurineane 1.30E-01 1.30E-01 3.36E-10 3.36E-10 1.4E-08 Benzo(a)ghurineane 1.30E-01 1.30E-01 3.36E-10 2.54E-08 Diberz(a)phinthracene 1.30E-01 1.38E-02 1.16E-10 3.86E-10 1.48E-08 Benzo(a)phyrene 1.30E-01 1.38E-02 1.16E-10 2.81E-09 Indero(1,2.3-d)pyrene 1.30E-01 1.38E-01 4.02E-10 2.81E-09 INHALATION PATHWAY Ac = Sc * (1/PEF + 1/VF) EAC = (Ac * EF * ED) / AT * *for carcinogens, a conversion is necessary to get into proper units, ug/m3 The Adminum 1.07E-04 1.07E-05 3.76E-05 2.63E-06 Aluminum 1.07E-04 1.0			'days)			
Sc						
1,2-Dichloroethane	,,,,,,		(44)0/			
1,2-Dichloroethane						
1,2-Dichloroethane 1,08E-02 8,80E-11 6,18E-09 Aluminum 1,20E+04 9,34E-05 6,99E-03 Avaroior-1254 5,60E-03 4,65E-11 3,25E-09 Benzo(ajanthracene 6,80E-02 7,66E-10 3,95E-08 Benzo(ajpyrene 9,22E-02 7,66E-10 3,95E-08 Benzo(ajpyrene 9,22E-02 7,66E-10 5,36E-08 Benzo(ajpyrene 9,22E-02 7,66E-10 5,36E-08 Benzo(ajpyrene 9,22E-02 7,66E-10 5,36E-08 Benzo(ajpyrene 1,20E-01 9,96E-10 6,97E-08 Dibenz(ajpyrene 1,30E-01 1,75E-04 1,16E-09 7,73E-08 Dibenz(ajpyrene 1,30E-01 1,75E-04 1,30E-01 1,75E-04 1,30E-01 1,30E-				Sc		
Aluminum	Chemical				Carcinogens	Noncarcinogens
Aluminum						2.427.02
Apoclor-1254						
Benzz(a)anthracene						
Benzzóa pyrene 9,22E-02						
Banzo(pilluoranthene 1.20E-01 9.96E-10 2.23E-08 Indeno(1,2,3-cd)pyrene 1.33E-01 1.10E-09 7.73E-08 Indeno(1,2,3-cd)pyrene 1.35E-01 1.10E-09 7.73E-08 Indeno(1,2,3-cd)pyrene 1.27E-02 1.05E-10 7.38E-09 DERMAL CONTACT INTAKE = (Sc * SA * AF * ABSd * EF * ED * CF) / (BW * AT) Chemical ABSd Sc						
Disertiz(A))anthracene 3.84E-02 3.19E-10 2.23E-08 Incheno(12,3-cd)pyrene 1.33E-01 1.10E-09 7.73E-08 Iron 1.75E+04 1.46E-04 1.02E-02 Tetrachloroethene 1.27E-02 1.05E-10 7.38E-09						
Indenot(1,2,3-cd)pyrene 1,33E-01 1,10E-09 7,73E-08	, , ,					
Tretrachloroethene						
Tetrachloroethene	, , , , , , , , , , , , , , , , , , , ,	3				
DERMAL CONTACT INTAKE = (Sc * SA * AF * ABSd * EF * ED * CF) / (BW * AT)						
NTAKE = (Sc * SA * AF * ABSd * EF * ED * CF) / (BW * AT)	renachioroeniene			1.27 =-02	1.05E-10	7.30E-09
Chemical 1.30E-01 1.06E-02 3.20E-11 2.24E-09	INTAKE = (Sc * SA * A	%F*ABSd*EF*ED*CF)/(BW	* AT)			
Aurolnum Aurolnum Aurolnum Ancolor-1254 Ancolor-1254 1,30E-01 5,60E-03 1,69E-11 1,18E-09 Benzo(a)anthracene 1,30E-01 1,3	Chemical		ABSd	Sc		
Aurolnum Aurolnum Aurolnum Ancolor-1254 Ancolor-1254 1,30E-01 5,60E-03 1,69E-11 1,18E-09 Benzo(a)anthracene 1,30E-01 1,3	4 0 DI-11		4 005 04	4 005 00	0.005.44	2.245.20
Aroclor-1254						
Benzo(a)anthracene						
Benzo(a)pyrene						
Benzo(b)fluoranthene						
Dibenz(a,h)anthracene 1.30E-01 3.84E-02 1.16E-10 8.12E-09 Indeno(1,2,3-cd)pyrene 1.30E-01 1.33E-01 4.02E-10 2.81E-08 Iron 1.00E-02 1.75E+04 4.08E-06 2.85E-04 Tetrachloroethene 1.30E-01 1.27E-02 3.84E-11 2.69E-09 INHALATION PATHWAY Ac						
Indeno(1,2,3-cd)pyrene		•				
Iron						
Tetrachloroethene 1.30E-01 1.27E-02 3.84E-11 2.69E-09 INHALATION PATHWAY Ac = Sc * (1/PEF + 1/VF) EAC = (Ac * EF * ED) / AT *for carcinogens, a conversion is necessary to get into proper units, ug/m3 Sc VF Ac EAC for Carcinogens Noncarcinogens 1,2-Dichloroethane 1.06E-02 1.41E+04 7.50E-07 2.64E-06 1.85E-07 Aluminum 1.07E+04 1.07E-05 3.76E-05 2.63E-06 Arcolor-1254 3.70E-03 3.70E-12 1.30E-11 9.12E-13 Benzo(a)anthracene 7.15E-02 7.15E-11 2.52E-10 1.76E-11 Benzo(a)pyrene 1.14E-01 1.14E-10 4.02E-10 2.81E-11 Benzo(b)fluoranthene 1.46E-01 1.46E-10 5.14E-10 3.60E-11 Dibenz(a,h)anthracene 4.71E-02 4.71E-11 1.66E-10 1.16E-11 Indeno(1,2,3-cd)pyrene 1.51E-01 1.51E-10 5.32E-10 3.72E-11 Iron 1.95E+04 1.95E-05 6.86E-05 4.80E-06		•				
NHALATION PATHWAY Ac						
Ac = Sc * (1/PEF + 1/VF) EAC = (Ac * EF * ED) / AT *for carcinogens, a conversion is necessary to get into proper units, ug/m3 Sc VF Ac EAC for Carcinogens Noncarcinogens 1,2-Dichloroethane 1.06E-02 1.41E+04 7.50E-07 2.64E-06 1.85E-07 Aluminum 1.07E+04 1.07E-05 3.76E-05 2.63E-06 Aroclor-1254 3.70E-03 3.70E-12 1.30E-11 9.12E-13 Benzo(a)parthracene 7.15E-02 7.15E-11 2.52E-10 1.76E-11 Benzo(a)pyrene 1.14E-01 1.14E-10 4.02E-10 2.81E-11 Benzo(b)fluoranthene 1.46E-01 1.46E-10 5.14E-10 3.60E-11 Dibenz(a,h)anthracene 4.71E-02 4.71E-11 1.66E-10 1.16E-11 Indeno(1,2,3-cd)pyrene 1.51E-01 1.51E-10 5.32E-10 3.72E-11 Iron 1.95E+04 1.95E-05 6.86E-05 4.80E-06		AY	·		-	
Chemical Carcinogens Noncarcinogens 1,2-Dichloroethane 1.06E-02 1.41E+04 7.50E-07 2.64E-06 1.85E-07 Aluminum 1.07E+04 1.07E-05 3.76E-05 2.63E-06 Aroclor-1254 3.70E-03 3.70E-12 1.30E-11 9.12E-13 Benzo(a)anthracene 7.15E-02 7.15E-11 2.52E-10 1.76E-11 Benzo(a)pyrene 1.14E-01 1.14E-10 4.02E-10 2.81E-11 Benzo(b)fluoranthene 1.46E-01 1.46E-10 5.14E-10 3.60E-11 Dibenz(a,h)anthracene 4.71E-02 4.71E-11 1.66E-10 1.16E-11 Indeno(1,2,3-cd)pyrene 1.51E-01 1.51E-10 5.32E-10 3.72E-11 Iron 1.95E+04 1.95E-05 6.86E-05 4.80E-06	Ac = Sc * (1/PE	= + 1/VF)	ns, a conversion	i is necessary t	to get into proper units, ug/m3	
Aluminum 1.07E+04 1.07E-05 3.76E-05 2.63E-06 Aroclor-1254 3.70E-03 3.70E-12 1.30E-11 9.12E-13 Benzo(a)anthracene 7.15E-02 7.15E-11 2.52E-10 1.76E-11 Benzo(a)pyrene 1.14E-01 1.14E-10 4.02E-10 2.81E-11 Benzo(b)fluoranthene 1.46E-01 1.46E-10 5.14E-10 3.60E-11 Dibenz(a,h)anthracene 4.71E-02 4.71E-11 1.66E-10 1.16E-11 Indeno(1,2,3-cd)pyrene 1.51E-01 1.51E-10 5.32E-10 3.72E-11 Iron 1.95E+04 1.95E-05 6.86E-05 4.80E-06	Chemical	Sc	VF	Ac		
Aluminum 1.07E+04 1.07E-05 3.76E-05 2.63E-06 Aroclor-1254 3.70E-03 3.70E-12 1.30E-11 9.12E-13 Benzo(a)anthracene 7.15E-02 7.15E-11 2.52E-10 1.76E-11 Benzo(a)pyrene 1.14E-01 1.14E-10 4.02E-10 2.81E-11 Benzo(b)fluoranthene 1.46E-01 1.46E-10 5.14E-10 3.60E-11 Dibenz(a,h)anthracene 4.71E-02 4.71E-11 1.66E-10 1.16E-11 Indeno(1,2,3-cd)pyrene 1.51E-01 1.51E-10 5.32E-10 3.72E-11 Iron 1.95E+04 1.95E-05 6.86E-05 4.80E-06	1 2-Dichloroothone	1.00= 0	2 1 41 = ±0.4	7 505 07	2 64⊑ 06	1 85E-07
Aroclor-1254 3.70E-03 3.70E-12 1.30E-11 9.12E-13 Benzo(a)anthracene 7.15E-02 7.15E-11 2.52E-10 1.76E-11 Benzo(a)pyrene 1.14E-01 1.14E-10 4.02E-10 2.81E-11 Benzo(b)fluoranthene 1.46E-01 1.46E-10 5.14E-10 3.60E-11 Dibenz(a,h)anthracene 4.71E-02 4.71E-11 1.66E-10 1.16E-11 Indeno(1,2,3-cd)pyrene 1.51E-01 1.51E-10 5.32E-10 3.72E-11 Iron 1.95E+04 1.95E-05 6.86E-05 4.80E-06						
Benzo(a)anthracene 7.15E-02 7.15E-11 2.52E-10 1.76E-11 Benzo(a)pyrene 1.14E-01 1.14E-10 4.02E-10 2.81E-11 Benzo(b)fluoranthene 1.46E-01 1.46E-10 5.14E-10 3.60E-11 Dibenz(a,h)anthracene 4.71E-02 4.71E-11 1.66E-10 1.16E-11 Indeno(1,2,3-cd)pyrene 1.51E-01 1.51E-10 5.32E-10 3.72E-11 Iron 1.95E+04 1.95E-05 6.86E-05 4.80E-06						
Benzo(a)pyrene 1.14E-01 1.14E-10 4.02E-10 2.81E-11 Benzo(b)filuoranthene 1.46E-01 1.46E-10 5.14E-10 3.60E-11 Dibenz(a,h)anthracene 4.71E-02 4.71E-11 1.66E-10 1.16E-11 Indeno(1,2,3-cd)pyrene 1.51E-01 1.51E-10 5.32E-10 3.72E-11 Iron 1.95E+04 1.95E-05 6.86E-05 4.80E-06						
Benzo(b)Nuoranthene 1.46E-01 1.46E-10 5.14E-10 3.60E-11 Dibenz(a,h)anthracene 4.71E-02 4.71E-11 1.66E-10 1.16E-11 Indeno(1,2,3-cd)pyrene 1.51E-01 1.51E-10 5.32E-10 3.72E-11 Iron 1.95E+04 1.95E-05 6.86E-05 4.80E-06						
Dibenz(a,h)anthracene 4.71E-02 4.71E-11 1.66E-10 1.16E-11 Indeno(1,2,3-cd)pyrene 1.51E-01 1.51E-10 5.32E-10 3.72E-11 Iron 1.95E+04 1.95E-05 6.86E-05 4.80E-06						
Indeno(1,2,3-cd)pyrene 1.51E-01 1.51E-10 5.32E-10 3.72E-11 Iron 1.95E+04 1.95E-05 6.86E-05 4.80E-06						
Iron 1.95E+04 1.95E-05 6.86E-05 4.80E-06						
1.27 E-02 1.01E-00 0.00E-00 2.00E-00 2.00E-00						
	, 5401 1101 3011 1011 10	1.27 = 02	1.512.00	5.552-00	2,002-00	2.0.2.00

TABLE C-15 INTAKE CALCULATIONS FOR SOIL NORTH OF MARLIN RME -- CONSTRUCTION WORKER

SOIL INGESTION						
SOIL INGESTION						
INTAKE = (Sc * IR * E	F * ED * CF) / (BW	(* AT)				
·		ŕ				
Parameter Intake	Definition Intake of chemical	/ma/ka dau)			Value calculated	Reference
Sc	Soil concentration				calculated see data page	
Ac	Air concentration				see below	
EAC	Effective air conce		3)		· calculated	
VF	Volatilization Fact		•		calculated	EPA, 1996
PEF	Particulate Emissi		g)		1.00E+09	EPA, 2004a
IR	Ingestion rate of s	oil (mg/day)	-		330	EPA, 2001 ·
SA	Skin surface area				3300	EPA, 2004a
AF	Soil to skin adhere		•		0.3	EPA, 2001b
ABSd	Demal absorption		5)		see chemprop page	
EF	Exposure frequen				250	professional judgment
ED	Exposure duration				1	professional judgment
CF BW	Conversion factor	(kg/mg)			1.00E-06	EPA, 1989
ATC	Body weight (kg) Averaging time for	rarcinogene (da	we)		70 25550	EPA, 1989 EPA, 1989
ATnc	Averaging time for				365	EPA, 1989
71110	Averaging line to	noncarcinogens	(uaya)		303	Li A, 1909
				Sc	Intake for	Intake for
Chemical					Carcinogens	Noncarcinogens
1,2-Dichloroethane				1.03E-01	4.75E-09	3,33E-07
Aluminum				1.31E+04	6.04E-04	4.23E-02
Aroclor-1254				1.68E-02	7.75E-10	5.42E-08
Benzo(a)anthracene				4.64E-01	2.14E-08	1.50E-06
Benzo(a)pyrene				5.54E-01	2.56E-08	1.79E-06
Benzo(b)fluoranthene				6.49E-01	2.99E-08	2.10E-06
Dibenz(a,h)anthracene				1.77E-01	8.16E-09	5.72E-07
Indeno(1,2,3-cd)pyren	9			5.77E-01	2.66E-08	1.86E-06
Iron				2.18E+04	1.00E-03	7.03E-02
Tetrachloroethene				1.29E-01	5.95E-09	4.17E-07
INTAKE = (Sc * SA * A	AF * AB\$d * EF * E	D * CF) / (BW * /	AT)			
Chemical			ABSd	Sc	Intake for Carcinogens	Intake for Noncarcinogens
4.0 Diablemethers			4 205 04	4.095.04	1 855 00	4 205 07
1,2-Dichloroethane			1.30E-01	1.03E-01	1,85E-09	1.30E-07
Aluminum			1.00E-02	1.31E+04	1.81E-05	1.27E-03
Aroclor-1254			1.30E-01	1.68E-02	3.02E-10	2.12E-08
Benzo(a)anthracene			1.30E-01 1.30E-01	4.64E-01 5.54E-01	8,35E-09	5.84E-07
Benzo(a)pyrene			1.30E-01	6.49E-01	9.97E-09 1.17E-08	6.98E-07
Benzo(b)fluoranthene Dibenz(a,h)anthracene			1.30E-01	1.77E-01	3,18E-09	8.17E-07 2.23E-07
Indeno(1,2,3-cd)pyrene			1.30E-01	5.77E-01	1.04E-08	7.27E-07
iron	•		1.00E-02	2.18E+04	3.01E-05	2.11E-03
Tetrachloroethene			1.30E-01	1,29E-01	2.32E-09	1.62E-07
INHALATION PATHW Ac = Sc * (1/PEF EAC = (Ac * EF * I	F + 1/VF)	for carcinogens,	a conversion	is necessary	to get into proper units, ug/m3	
Chemical	<u>.</u>	Sc	VF	Ac	EAC for Carcinogens	EAC for Noncarcinogens
1,2-Dichloroethane		1.03E-01	1.41E+04	7.29E-06	7.13E-05	4.99E-06
1,2-Dictioroethane Aluminum		1.03E-01 1.22E+04	1.715704	1.29E-06 1.22E-05	7.13E-05 1.19E-04	
Aluminum Aroclor-1254						8.35E-06 5.27E-12
Arocior-1254 Benzo(a)anthracene		7.70E-03 7.20E-01		7.70E-12	7.53E-11 7.05E-09	5.27E-12
• •				7.20E-10 8.88E-10		4.93E-10
Benzo(a)pyrene Benzo(b)fluoranthene	•	8,88E-01 3,52E-01		3.52E-10	8.69E-09	6.08E-10
Benzo(p)tiuorantnene Dibenz(a,h)anthracene				3.52E-10 2.84E-10	3.44E-09	2.41E-10
		2.84E-01		2.84E-10 9.69E-10	2.78E-09	1,95E-10 6,64E-10
Indeno(1,2,3-cd)pyrend Iron	5	9.69E-01			9.48E-09	6.64E-10
Tetrachloroethene		4.11E+04 1.29E-01	1.51E+03	4.11E-05 8.52E-05	4.02E-04 8.33E-04	2,82E-05 5.83E-05
. ou demonded lette		1.204-01	1.012103	3.02L-00	0.001-04	0.002-00

TABLE C-16 INTAKE CALCULATIONS FOR SOIL NORTH OF MARLIN AVERAGE -- INDUSTRIAL WORKER

SOIL INGESTION					 		
INITAKE - (Co * ID * E	E * ED * CE\ //P\A/	* AT					
INTAKE = (Sc * IR * E	F " ED " CF) / (BVV	AI)					
Parameter	Definition				Value	Reference	
Intake	Intake of chemical				calculated		
Sc	Soil concentration				see data page		
Ac	Air concentration (see below	•	
EAC	Effective air conce		3)		calculated	CDA 4006	
VF PEF	Volatilization Facto		~\		calculated 1.00E+09	EPA, 1996	
IR	Particulate Emission ingestion rate of so		9)		1.00E+09 50	EPA, 2004a EPA, 2004a	
SA	Skin surface area				3300	EPA, 2004a	
AF	Soil to skin adhere		m2)		0.021	EPA, 2001a	
ABSd	Dermal absorption	, .			see chemprop page		
EF	Exposure frequence		•		250	EPA, 2004a	
ED	Exposure duration	(yr)			25	EPA, 2004a	
CF	Conversion factor	(kg/mg)			1.00E-06	EPA, 1989	
BW	Body weight (kg)				70	EPA, 1989	
ATc	Averaging time for				25550	EPA, 1989	
ATnc	Averaging time for	noncarcinogens	(days)		9125	EPA, 1989	
				Sc	Intake for	Intake for	
Chemical					Carcinogens	Noncarcinogens	
1,2-Dichloroethane				1.06E-02	1.85E-09	5.19E-09	
Aluminum				1.20E+04	2.09E-03	5,86E-03	
Aroclor-1254				5.60E-03	9.78E-10	2.74E-09	
Benzo(a)anthracene				6,80E-02	1.19E-08	3,33E-08	
Benzo(a)pyrene				9.22E-02	1.61E-08	4.51E-08	
Benzo(b)fluoranthene				1.20E-01	2.10E-08	5.87E-08	
Dibenz(a,h)anthracen	9 .			3.84E-02	6.71E-09	1.88E-08	
Indeno(1,2,3-cd)pyren	ė			1.33E-01	2.32E-08	6.51E-08	
Iron				1.75E+04	3.06E-03	8.58E-03	
Tetrachloroethene				1.27E-02	2.22E-09	6.21E-09	
DERMAL CONTACT							
INTAKE = (Sc * SA * /	AF * ABSd * EF * E	D * CF) / (BW * A	AT)				
							
			ABSd	Sc	Intake for	Intake for	
Chemical					Carcinogens	Noncarcinogens	
1,2-Dichloroethane			1.30E-01	1.06E-02	3.34E-10	9.34E-10	
Aluminum			1.00E-02	1.20E+04	2.90E-05	8.12E-05	
Aroclor-1254			1.30E-01	5.60E-03	1.76E-10	4.94E-10	
Benzo(a)anthracene			1.30E-01	6,80E-02	2.14E-09	5.99E-09	
Benzo(a)pyrene			1,30E-01	9.22E-02	2.90E-09	8.13E-09	
Benzo(b)fluoranthene			1.30E-01	1.20E-01	3.78E-09	1.06E-08	
Dibenz(a,h)anthracen			1.30E-01	3.84E-02	1.21E-09	3.38E-09	
Indeno(1,2,3-cd)pyren			1.30E-01	1.33E-01	4.19E-09	1.17E-08	
iron			1.00E-02	1.75E+04	4.25E-05	1.19E-04 ·	
Tetrachioroethene			1.30E-01	1.27E-02	4.00E-10	1.12E-09	
INHALATION PATHW	/AY						•
A	E + 40/E)						
Ac = Sc * (1/PE EAC = (Ac * EF *	r + 1/VF)				to get into proper units, ug/m3		
L-10 - 1/10 L1	ED) / AT	for carcinogens.	a conversion	is necessary			
- (AG E	ED)/AT	for carcinogens,	a conversion	is necessary			
	ED)/AT *				EAC for	EAC for	,
Chemical	ED) / AT	for carcinogens,	VF	Ac	EAC for Carcinogens	EAC for Noncarcinogens	
Chemical	ED) / AT	Sc	VF	Ac	Carcinogens	Noncarcinogens	
Chemical 1,2-Dichloroethane	ED) / AT	Sc 1.06E-02		Ac 7.50E-07	Carcinogens 1.84E-04	Noncarcinogens 5.14E-07	
Chemical 1,2-Dichloroethane Aluminum	ED) / AT	Sc 1.06E-02 1.07E+04	VF	Ac 7.50E-07 1.07E-05	Carcinogens 1.84E-04 2.61E-03	Noncarcinogens 5.14E-07 7.31E-06	
Chemical 1,2-Dichloroethane Aluminum Aroclor-1254	ED) / AT	Sc 1.06E-02 1.07E+04 3.70E-03	VF	Ac 7.50E-07 1.07E-05 3.70E-12	1.84E-04 2.61E-03 9.05E-10	Noncarcinogens 5.14E-07 7.31E-06 2.53E-12	
Chemical 1,2-Dichloroethane Aluminum Aroclor-1254 Benzo(a)anthracene	ED) / AT	1.06E-02 1.07E+04 3.70E-03 7.15E-02	VF	7.50E-07 1.07E-05 3.70E-12 7.15E-11	Carcinogens 1.84E-04 2.61E-03 9.05E-10 1.75E-08	5.14E-07 7.31E-06 2.53E-12 4.90E-11	
Chemical 1,2-Dichloroethane Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene		1.06E-02 1.07E+04 3.70E-03 7.15E-02 1.14E-01	VF	7.50E-07 1.07E-05 3.70E-12 7.15E-11 1.14E-10	Carcinogens 1.84E-04 2.61E-03 9.05E-10 1.75E-08 2.79E-08	Noncarcinogens 5.14E-07 7.31E-06 2.53E-12 4.90E-11 7.81E-11	_
Chemical 1,2-Dichloroethane Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene		1.06E-02 1.07E+04 3.70E-03 7.15E-02 1.14E-01 1.46E-01	VF	7.50E-07 1.07E-05 3.70E-12 7.15E-11 1.14E-10 1.46E-10	Carcinogens 1.84E-04 2.61E-03 9.05E-10 1.75E-08	5.14E-07 7.31E-06 2.53E-12 4.90E-11 7.81E-11 1.00E-10	
Chemical 1,2-Dichloroethane Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Dibenz(a,h)anthracen	9	1.06E-02 1.07E+04 3.70E-03 7.15E-02 1.14E-01	VF	7.50E-07 1.07E-05 3.70E-12 7.15E-11 1.14E-10	Carcinogens 1.84E-04 2.61E-03 9.05E-10 1.75E-08 2.79E-08 3.57E-08	Noncarcinogens 5.14E-07 7.31E-06 2.53E-12 4.90E-11 7.81E-11	
Chemical 1,2-Dichloroethane Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene	9	1.06E-02 1.07E+04 3.70E-03 7.15E-02 1.14E-01 1.46E-01 4.71E-02	VF	7.50E-07 1.07E-05 3.70E-12 7.15E-11 1.14E-10 4.71E-11	Carcinogens 1.84E-04 2.61E-03 9.05E-10 1.75E-08 2.79E-08 3.57E-08 1.15E-08	5.14E-07 7.31E-06 2.53E-12 4.90E-11 7.81E-11 1.00E-10 3.23E-11	
Chemical 1,2-Dichloroethane Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(b)fluoranthene Dibenz(a,h)anthracenindeno(1,2,3-cd)pyrene	9	1.06E-02 1.07E+04 3.70E-03 7.15E-02 1.14E-01 4.71E-02 1.51E-01	VF	7.50E-07 1.07E-05 3.70E-12 7.15E-11 1.14E-10 1.46E-10 4.71E-11 1.51E-10	1.84E-04 2.61E-03 9.05E-10 1.75E-08 2.79E-08 3.57E-08 1.15E-08 3.69E-08	Noncarcinogens 5.14E-07 7.31E-06 2.53E-12 4.90E-11 7.81E-11 1.00E-10 3.23E-11 1.03E-10	-

TABLE C-17 INTAKE CALCULATIONS FOR SOIL NORTH OF MARLIN RME -- INDUSTRIAL WORKER

CON INCESTION		<u> </u>			
SOIL INGESTION					
INTAKE = (Sc * IR * E	F * ED * CF) / (BW * AT)				
, ,					
Parameter	Definition			Value	Reference
Intake	Intake of chemical (mg/kg-day) Soil concentration (mg/kg))		calculated see data page	
Sc Ac	Air concentration (mg/m^3)			see data page see below	
EAC	Effective air concentration (mg	/m^3)		calculated	
VF	Volatilization Factor (m^3/kg)	, 0,		calculated	EPA, 1996
PEF	Particulate Emission Factor (m	n^3/kg)		1.00E+09	EPA, 2004a
IR	Ingestion rate of soil (mg/day)			50	EPA, 2004a
SA	Skin surface area (cm2)			3300	EPA, 2004a
AF	Soil to skin adherence factor (r	mg/cm2)		0.2	EPA, 2004a
ABSd	Dermal absorption fraction (un	itless)		see chemprop page	
EF	Exposure frequency (day/yr)			250	EPA, 2004a
ED	Exposure duration (yr)			25	EPA, 2004a
CF BW	Conversion factor (kg/mg)			1.00E-06 70	EPA, 1989 EPA, 1989
ATc	Body weight (kg) Averaging time for carcinogens	e (dave)		25550	EPA, 1989
ATnc	Averaging time for noncarcinog			9125	EPA, 1989
, , , , ,	Trotaging anto for Horiocionio	gono (dayo)		0.25	
			Sc	Intake for	Intake for
Chemical				Carcinogens	Noncarcinogens
4 2 Diahi			4.005.04	4 005 00	E 04E 00
1,2-Dichloroethane			1.03E-01	1.80E-08	5,04E-08 6,41E-03
Aluminum Aroclor-1254			1,31E+04 1,68E-02	2.29E-03 2.94E-09	6.41E-03 8.22E-09
Benzo(a)anthracene			4.64E-01	2.94E-09 8.11E-08	2.27E-07
Benzo(a)pyrene			5.54E-01	9.68E-08	2.71E-07
Benzo(b)fluoranthene			6.49E-01	1,13E-07	3.18E-07
Dibenz(a,h)anthracen	9		1.77E-01	3.09E-08	8.66E-08
Indeno(1,2,3-cd)pyren			5.77E-01	1.01E-07	2.82E-07
Iron			2.18E+04	3.80E-03	1.06E-02
Tetrachloroethene			1.29E-01	2.25E-08	6,31E-08
DERMAL CONTACT					
INTAKE = (Sc * SA * A	AF * AB\$d * EF * ED * CF) / (B\	W * AT)			
					
		ABSd	Sc	Intake for	Intake for
Chemical				Carcinogens	Noncarcinogens
			•		
1,2-Dichloroethane		1.30E-01	1.03E-01	3.09E-08	8.65E-08
Aluminum		1.00E-02	1.31E+04	3.02E-04	8,45E-04
Aroclor-1254		1.30E-01	1.68E-02	5.04E-09	1.41E-08
Benzo(a)anthracene		1.30E-01	4.64E-01	1.39E-07	3.90E-07
Benzo(a)pyrene		1.30E-01	5.54E-01	1.66E-07	4.65E-07
Benzo(b)fluoranthene	_	1.30E-01 1.30E-01	6.49E-01 1.77E-01	1.95E-07 5.31E-08	5.45E-07 1.49E-07
Dibenz(a,h)anthracend Indeno(1,2,3-cd)pyren		1.30E-01	5.77E-01	1.73E-07	4.84E-07
iron	•	1.00E-02	2.18E+04	5.02E-04	1.41E-03
Tetrachloroethene		1.30E-01	1.29E-01	3.87E-08	1.08E-07
INHALATION PATHW	/AY				
Ac = Sc * (1/PE		-			
EAC = (Ac * EF *	ED) / AI for carcinog	ens, a conversior	i is necessary t	to get Into proper units, ug/m3	
	Sc	VF	Ac	EAC for	EAC for
Chemical	30	٧r	Ac.	Carcinogens	Noncarcinogens
5o				Salottogona	
1,2-Dichloroethane	1.03E-	-01 1.41E+04	7.29E-06	1.78E-03	4.99E-06
Aluminum	1.22E+		1.22E-05	2.98E-03	8,35E-06
Aroclor-1254	7.70E-		7.70E-12	1.88E-09	5.27E-12
Benzo(a)anthracene	7.20E-		7.20E-10	1.76E-07	4.93E-10
Benzo(a)pyrene	8.88E-		8.88E-10	2.17E-07	6.08E-10
Benzo(b)fluoranthene			3.52E-10	8.61E-08	2.41E-10
Dibenz(a,h)anthracen			2.84E-10	6.95E-08	1.95E-10
Indeno(1,2,3-cd)pyren			9.69E-10	2.37E-07	6.64E-10
iron	4.11E+		4.11E-05	1.01E-02	2.82E-05
Tetrachloroethene	1.29E	-01 1.51E+03	8.52E-05	2.08E-02	5.83E-05
1					

APPENDIX D

RISK CALCULATIONS

TABLE D-1
CHEMICAL SPECIFIC TOXICITY VALUES*

Compound	EPA weight- of-evidence classification	CAS Number	Chronic RfD mg/kg-day		nhalaiton RfC mg/m3	Oral S Fact Notes: 1/mg/k	or	Inhalation Unit Risk 1/ug/m3	Dermal Absorption Notes: (unitless)	Notes:
4.4-DDD	B2	72-54-8				2.40E	E-01		1.30E-01	
Aluminum	Not available	7429-90-5	1.00E+00		5.00E-03				1.00E-02	
Aroclor-1254	B2	1336-36-3	2.00E-05			2.00E	+00	5.70E-04	1.40E-01	
Arsenic	Α	7440-38-2	3.00E-04			1.50E	+00	4.30E-03	3.00E-02	
Benzo(a)anthracene	B2	56-55-3	_			7.30E	-01	8.80E-05	1.30E-01	
Benzo(a)pyrene	B2	50-32-8	-			7.30E	+00	8.80E-04	1.30E-01	
Benzo(b)fluoranthene	B2	205-99-2				7.30E	-01	8.80E-05	1.30E-01	
Benzo(k)fluoranthene	B2	207-08-9				7.30E	-02	8.80E-06	1.30E-01	
Dibenz(a,h)anthracene	B2	53-70-3				7.30E	+00	8.80E-04	1.30E-01	
Dieldrin	B2	60-57-1	5.00E-05			1.60E	+01	4.60E-03	1.30E-01	
ndeno(1,2,3-cd)pyrene	B2	193-39-5	-			7.30E	-01	8.80E-05	1.30E-01	
ron	Not available	7439-89-6	7.00E-01	NCEA, 2006					1.00E-02	
sopropylbenzene (cumene)	D	98-82-8	1.00E-01		4.00E-01				1.30E-01	
Lead	B2	7439-92-1	-						1.00E-02	
Napthalene	D	91-20-3	2.00E-02	3	3.00E-03	<u></u>			1.30E-01	

Notes:

^{*} Unless otherwise noted, the values were obtained from the EPA's on-line database, IRIS.

TABLE D-2 RISK/HAZARD CALCULATIONS FOR SOIL SOUTH OF MARLIN AVERAGE — YOUTH TRESPASSER

Intake	Cancer Risk =	ntake*CSF	HQ =	Intake / RfD					
Part amotor Definition Default	,								
Intake of Intake of Intake of Intake of Intake Intake	·			LACT NO					
Effective Ar Concentration (might-"3) See champrop									
CSF				•61					
See Chemprop See									
RIC Reference dose (mptkg-day) RIC Inhalation reference concentration (mg/m*3) ROESTRON ROESTRON ROESTRON Slope RfD Intake Nonzer Risk Carcer Nonzer Risk Quotent A4-DDD 2.40E-01 — 1.12E-10 3.15E-10 2.70E-11 ALMINIUM — 2.00E-10 — 1.12E-10 3.15E-10 2.70E-11 ALMINIUM — 7.30E-01 — 3.39E-09 1.0E-08 2.87E-09 Benzz(a)pyrene 7.30E-01 — 3.39E-09 1.0E-08 3.72E-08 Benzz(a)pyrene 7.30E-01 — 3.39E-09 1.0E-08 3.72E-08 Benzz(a)pyrene 7.30E-01 — 8.48E-09 1.32E-09 4.9EE-09 Benzz(a)pyrene 7.30E-01 — 8.48E-09 1.0E-08 3.72E-08 Benzz(a)pyrene 7.30E-01 — 8.48E-09 1.32E-09 4.9EE-09 Benzz(a)pyrene 7.30E-01 — 8.48E-09 1.3EE-09 4.9EE-09 Benzz(a)pyrene 7.30E-01 — 8.48E-09 1.3EE-09 4.9EE-09 Benzz(a)pyrene 7.30E-01 — 8.48E-09 1.3EE-09 1.8EE-01 9.8EE-09 Benzz(a)pyrene 7.30E-01 — 8.48E-09 1.3EE-09 1.8EE-01 9.8EE-09 Benzz(a)pyrene 8.0EE-01 — 8.48E-09 1.3EE-09 1.8EE-09 9.8EE-09 Benzz(a)pyrene 8.0EE-01 — 7.30E-01 1.2EE-01 1.3EE-09 1.8EE-09 9.8EE-09 Benzz(a)pyrene 8.0EE-01 — 8.3EE-01 1.3EE-09 1.8EE-09 9.8EE-09 Benzz(a)pyrene 8.0EE-01 — 8.3EE-01 1.3EE-09 1.8EE-09 9.2EE-06 9				1					
Inhabition reference concentration (mg/m²/s) See Chemprop									
NGESTION Slope RID Intake Intake Cancer Hazard Quotient				n (malmA3)					
Chemical Slope RfD	KIC I	malation reletence	concentration	n (mg//ii··ə)			see chemprop		
Chemical Factor Caro Noncaro Risk Quotient	INGESTION								
Chemical Factor Caro Noncaro Risk Quotient		_,					_		
A4-DDD	Chaminal		RfD						
Alumhum	Criemical	Factor			Carc	Noncarc	RISK	Quotient	
Alumhum	4,4-DDD	2.40E-01			1.12E-10	3.15E-10	2.70E-11		
Benzo(a)amhtracene	Aluminum	_	1.00E+00			2,65E-04		2.65E-04	
Berzo(plyrene P. 30E-00 - 5.09E-09 1.43E-08 3.72E-08 Berzo(plyroranthene 7.30E-01 - 6.48E-09 1.252-08 4.9E-09 1.89E-09 Berzo(plyroranthene 7.30E-02 - 2.30E-09 8.45E-09 1.89E-09 Berzo(plyroranthene 7.30E-02 - 2.30E-09 8.45E-09 1.89E-10 Diokidnintscene 7.30E-01 - 5.00E-05 1.32E-11 3.70E-11 2.12E-08 7.40E-07 Indenot(1.2.3-cd)pyrene 7.30E-01 - 5.00E-05 1.32E-11 3.70E-11 2.12E-10 7.40E-07 Indenot(1.2.3-cd)pyrene 7.30E-01 - 5.00E-05 1.32E-11 3.70E-11 2.12E-10 7.40E-07 Indenot(1.2.3-cd)pyrene 7.30E-01 - 7.00E-01 2.10E-04 5.37E-04 5.37E-04 6.39E-04 Sopropylbenzene (cumene) - 7.00E-01 1.22E-08 3.42E-08 3.42E-07 Indenot(1.2.3-cd)pyrene 7.30E-07 - 7.88E-07 2.20E-06	Aroclor-1254	2.00E+00					6.02E-09		
Benze(philucranthene 7.30E-01 -	Benzo(a)anthracene	7.30E-01	_		3.93E-09	1,10E-08	2.87E-09		
Benzo(k)(futoranthene 7.30E-02	Benzo(a)pyrene	7,30E+00) –		5.09E-09	1.43E-08	3.72E-08		
Benzo(k)(futoranthene 7.30E-02									
Dilentria, Ajanthriscene 7.30E-00 - 1.68E-09 4.94E-09 1.21E-08 Dilentria 1.69E-01 5.00E-05 1.32E-11 3.70E-11 2.12E-10 7.40E-07 Dilentria 1.69E-01 5.00E-05 1.32E-11 3.70E-11 2.12E-10 7.40E-07 Dilentria 1.59E-01 - 5.40E-09 1.51E-08 3.94E-09 Dilentria 5.69E-09 Dilen									
Dieldin									
Indemot 2,3-acl)pyrene 7.30E-01 -	Dieldrin							7.40E-07	
Transpare Course Factor Care									
	Iron	_						8.38E-04	
Nepthalene		umene)							
Napthalene	Lead		_ `						
DERMAL CONTACT	Napthalene	_	2.00E-02		4.74E-09	1.33E-08		6.64E-07	
DERMAL CONTACT					B4437 +0+4		0.755.00	1 505 00	7
Chemical Slope RID Intake Carc Noncarc Risk Quotient				PAI	HWAY TOTA	\L =	6.75E-U8	1.53E-03	
Chemical Slope RID Intake Carc Noncarc Risk Quotient	DERMAL CONTACT								
Chemical Factor Carc Noncarc Risk Quotient	54.4								
4.4-DDD			RfD						
Africanium — 1,00E+00 2,00E+00 1,47E+09 4,13E+09 2,95E+09 2,06E+04 2,00E+05 1,47E+09 4,13E+09 2,95E+09 2,06E+04 2,00E+05 1,47E+09 5,01E+09 1,31E+09 2,06E+04 2,00E+04 2,00E+05 1,47E+09 5,01E+09 1,31E+09 2,06E+04 2,00E+04 2,0EE+04 2,00E+04 2,0EE+04 2,00E+04	Chemical	Factor			Carc	Noncarc	Risk	Quotient	
Africanium — 1,00E+00 2,00E+00 1,47E+09 4,13E+09 2,95E+09 2,06E+04 2,00E+05 1,47E+09 4,13E+09 2,95E+09 2,06E+04 2,00E+05 1,47E+09 5,01E+09 1,31E+09 2,06E+04 2,00E+04 2,00E+05 1,47E+09 5,01E+09 1,31E+09 2,06E+04 2,00E+04 2,0EE+04 2,00E+04 2,0EE+04 2,00E+04	4.4-DDD	2 4DF_01			5.12F-11	1 43F-10	1 23F-11		
Arcolor-1254	l '	2.701-01					1.206-11	9.28F_06	
Benzo(a)anthracene		2 00E+00					2 9515-09		
Benze(a)pyrene								2.000-04	
Benze(b)fluoranthene									
Benze(k)fluoranthene									
Dileptr(a,h)anthracene									
Dieldrin 1.60E+01 5.00E-05 6.02E-12 1.68E-11 9.62E-11 3.37E-07 Indero(1,2,3-cd)pyrene 7.30E-01 — 2.46E-09 6.88E-09 1.79E-09 1.55E-07 1.55E-08 1.55E-07 1.55E-07 1.55E-08 1.55E-07 1.55E-07 1.55E-09 1.55E-09 1.55E-09 1.55E-07 1.55E-07 1.55E-09 1.55E									
Indeno(1,2,3-cd)pyrene 7.30E-01								3.37F-07	
Incord								,,	
Sepropylbenzene (cumene)	Iron							2.93E-05	
Lead		umene)							
Napthalene	Lead								
NHALATION IUR RfC EAC EAC Cancer Hazard Carc (ug/m3) Noncarc (mg/m3) Risk Quotient	Napthalene	_	2.00E-02					3.02E-07	
IUR RfC EAC EAC Cancer Hazard Quotient			_						_
IUR RfC EAC Cancer Hazard Quotient				J PATI	ATOT YAWH	L=	3.09E-08	2.46E-04	<u> </u>
IUR RfC EAC Cancer Hazard Quotient	INHALATION								
Carc (ug/m3) Noncarc (mg/m3) Risk Quotient 4,4-DDD									
4,4-DDD 4.63E-12 1.30E-14 Aluminum - 5.00E-03 3.13E-05 8.77E-08 1.75E-05 Aroclor-1254 5.70E-04 - 8.04E-10 2.25E-12 4.58E-13 Benzo(a)anthracene 8.80E-05 - 2.03E-09 5.67E-12 1.78E-13 Benzo(a)pyrene 8.80E-04 - 2.68E-09 7.51E-12 2.36E-12 Benzo(b)fluoranthene 8.80E-05 - 3.42E-09 9.57E-12 3.01E-13 Benzo(b)fluoranthene 8.80E-06 1.41E-09 3.95E-12 1.24E-14 Dibenz(a,h)anthracene 8.80E-04 - 9.10E-10 2.55E-12 8.01E-13 Dieldrin 4.60E-03 5.85E-12 1.64E-14 2.69E-14 Indeno(1,2,3-cd)pyrene 8.80E-05 - 2.76E-09 7.73E-12 2.43E-13 Iron - 9.56E-05 2.68E-07 Isopropylbenzene (cumene) - 4.00E-01 4.88E-09 1.37E-11 3.42E-11 Lead 4.09E-07 1.14E-09 Napthalene - 3.00E-03 1.90E-09 5.31E-12 1.75E-05	a	IUR	RfC						
Aluminum - 5.00E-03 3.13E-05 8.77E-08 1.75E-05 Aroclor-1254 5.70E-04 - 8.04E-10 2.25E-12 4.58E-13 Benzo(a)anthracene 8.80E-05 - 2.03E-09 5.67E-12 1.78E-13 Benzo(b)fluoranthene 8.80E-05 - 3.42E-09 9.57E-12 3.01E-13 Benzo(k)fluoranthene 8.80E-06 1.41E-09 3.95E-12 1.24E-14 Dibenz(a,h)anthracene 8.80E-04 - 9.10E-10 2.55E-12 8.01E-13 Dieldrin 4.60E-03 5.85E-12 1.64E-14 2.69E-14 Indeno(1,2,3-cd)pyrene 8.80E-05 - 2.76E-09 7.73E-12 2.43E-13 Iron - 9.56E-05 2.68E-07 Isopropylbenzene (cumene) - 4.00E-01 4.88E-09 1.37E-11 3.42E-11 Lead - 1.77E-09 PATHWAY TOTAL = 4.38E-12 1.75E-05	Chemical				carc (ug/m3)	Noncarc (mg/m3)	Risk	Quotient	
Aluminum - 5.00E-03 3.13E-05 8.77E-08 1.75E-05 Aroclor-1254 5.70E-04 - 8.04E-10 2.25E-12 4.58E-13 Benzo(a)anthracene 8.80E-05 - 2.03E-09 5.67E-12 1.78E-13 Benzo(b)fluoranthene 8.80E-05 - 3.42E-09 9.57E-12 3.01E-13 Benzo(k)fluoranthene 8.80E-06 1.41E-09 3.95E-12 1.24E-14 Dibenz(a,h)anthracene 8.80E-04 - 9.10E-10 2.55E-12 8.01E-13 Dieldrin 4.60E-03 5.85E-12 1.64E-14 2.69E-14 Indeno(1,2,3-cd)pyrene 8.80E-05 - 2.76E-09 7.73E-12 2.43E-13 Iron - 9.56E-05 2.68E-07 Isopropylbenzene (cumene) - 4.00E-01 4.88E-09 1.37E-11 3.42E-11 Lead - 1.77E-09 PATHWAY TOTAL = 4.38E-12 1.75E-05	4.4-DDD	-	-		4.63F-12	1.30F-14			
Aroclor-1254 5.70E-04 - 8.04E-10 2.25E-12 4.58E-13 Benzo(a)anthracene 8.80E-05 - 2.03E-09 5.67E-12 1.78E-13 Benzo(a)pyrene 8.80E-04 - 2.68E-09 7.51E-12 2.36E-12 Benzo(b)fluoranthene 8.80E-05 - 3.42E-09 9.57E-12 3.01E-13 Benzo(k)fluoranthene 8.80E-06 1.41E-09 3.95E-12 1.24E-14 Dibenz(a,h)anthracene 8.80E-04 - 9.10E-10 2.55E-12 8.01E-13 Dieldrin 4.60E-03 5.85E-12 1.64E-14 2.69E-14 Indeno(1,2,3-cd)pyrene 8.80E-05 - 2.76E-09 7.73E-12 2.43E-13 Iron - 9.56E-05 2.68E-07 Isopropylbenzene (cumene) - 4.00E-01 4.88E-09 1.37E-11 3.42E-11 Lead 4.09E-07 1.14E-09 Napthalene - 3.00E-03 1.90E-09 5.31E-12 1.77E-09		_	5,00F-03					1.75E-05	
Benzo(a)anthracene 8.80E-05 2.03E-09 5.67E-12 1.78E-13 Benzo(a)pyrene 8.80E-04 2.68E-09 7.51E-12 2.36E-12 Benzo(b)fluoranthene 8.80E-05 3.42E-09 9.57E-12 3.01E-13 Benzo(k)fluoranthene 8.80E-06 1.41E-09 3.95E-12 1.24E-14 Dibenz(a,h)anthracene 8.80E-04 9.10E-10 2.55E-12 8.01E-13 Dieldrin 4.60E-03 5.85E-12 1.64E-14 2.69E-14 Indeno(1,2,3-cd)pyrene 8.80E-05 2.76E-09 7.73E-12 2.43E-13 Iron 9.56E-05 2.68E-07 Isopropylbenzene (cumene) 4.00E-01 4.88E-09 1.37E-11 3.42E-11 Lead 4.09E-07 1.14E-09 Napthalene 3.00E-03 1.90E-09 5.31E-12 1.77E-09		5 70F-0					4.58E-13	52-55	
Benzo(a)pyrene 8.80E-04 - 2.68E-09 7.51E-12 2.36E-12 Benzo(b)fluoranthene 8.80E-05 - 3.42E-09 9.57E-12 3.01E-13 Benzo(b)fluoranthene 8.80E-06 1.41E-09 3.95E-12 1.24E-14 Dibenz(a,h)anthracene 8.80E-04 - 9.10E-10 2.55E-12 8.01E-13 Dieldrin 4.60E-03 5.85E-12 1.64E-14 2.69E-14 Indeno(1,2,3-cd)pyrene 8.80E-05 - 2.76E-09 7.73E-12 2.43E-13 Iron - 9.56E-05 2.68E-07 Isopropylbenzene (cumene) - 4.00E-01 4.88E-09 1.37E-11 3.42E-11 Lead 4.09E-07 1.14E-09 Napthalene - 3.00E-03 1.90E-09 5.31E-12 1.77E-09									
Benzo(b)fluoranthene									
Benzo(k)fluoranthene									
Diberz(a,h)anthracene 8.80E-04 - 9.10E-10 2.55E-12 8.01E-13 Dieldrin 4.60E-03 5.85E-12 1.64E-14 2.69E-14 Indeno(1,2,3-cd)pyrene 8.80E-05 - 2.76E-09 7.73E-12 2.43E-13 Iron - 9.56E-05 2.68E-07 Isopropylbenzene (cumene) - 4.00E-01 4.88E-09 1.37E-11 3.42E-11 Lead 4.09E-07 1.14E-09 Napthalene - 3.00E-03 1.90E-09 5.31E-12 1.77E-09 PATHWAY TOTAL = 4.38E-12 1.75E-05									
Dieldrin 4.60E-03 5.85E-12 1.64E-14 2.69E-14 Indenc(1,2,3-cd)pyrene 8.80E-05 - 2.76E-09 7.73E-12 2.43E-13 Iron - 9.56E-05 2.68E-07 Isopropylbenzene (cumene) - 4.00E-01 4.88E-09 1.37E-11 3.42E-11 Lead - - 4.09E-07 1.14E-09 Napthalene - 3.00E-03 1.90E-09 5.31E-12 1.77E-09			-						
Indeno(1,2,3-cd)pyrene 8.80E-05 2.76E-09 7.73E-12 2.43E-13 Iron 9.56E-05 2.68E-07 Isopropylbenzene (currene) 4.00E-01 4.88E-09 1.37E-11 3.42E-11 Lead 4.09E-07 1.14E-09 Napthalene 3.00E-03 1.90E-09 5.31E-12 1.77E-09 PATHWAY TOTAL = 4.38E-12 1.75E-05	Dieldrin								
Sopropy benzene (cumene)									
Sopropy benzene (cumene)	Iron		_						
Lead - 4.09E-07 1.14E-09 Napthalene - 3.00E-03 1.90E-09 5.31E-12 1.77E-09 PATHWAY TOTAL = 4.38E-12 1.75E-05			4.00F-01					3.42F-11	
Napthalene - 3.00E-03 1.90E-09 5.31E-12 1.77E-09 PATHWAY TOTAL = 4.38E-12 1.75E-05			-7.00L-01					J.724711	
PATHWAY TOTAL = 4.38E-12 1.75E-05	Napthalene	_	3.00E-03					1.77E-09	
	•								7
TOTAL 9.85E-08 1.79E-03		· · · · · · · · · · · · · · · · · · ·		I PATI	ATOT YAWH	L =	4.38E-12	1.75E-05	<u>!</u>
10145 0,005,00 11,05,00						TOTAL	9.85E-08	1.79E-03	
							J.002-00		

TABLE D-3 RISK/HAZARD CALCULATIONS FOR SOIL SOUTH OF MARLIN RME -- YOUTH TRESPASSER (age 6 to 18)

Cancer Risk =	Intake*CSF	=	HQ =	Intake / RfD					
	or EAC * IUR			or EAC / RfC					
	LAC ION			DAC / NIC					
Parameter	Definition						Default		
Intake		hemical (mg					see intake		
EAC		ir Concentra				-	see intake		
CSF		pe factor (n		1			see chemprop		
IUR		unit risk (ug/					see chemprop		
RfD	Reference	dose (mg/k	g-day)				see chemprop		
RfC	Inhalation (reference co	ncentration	n (mg/m^3)			see chemprop		
INGESTION									<u> </u>
		Slope	RfD		Intake	Intake	Cancer	Hazard	
Chemical		Factor			Carc	Noncarc	Risk	Quotient	
4,4-DDD		2.40E-01	_		2.92E-09	8.19E-09	7.02E-10		
Aluminum		_	1.00E+00		4.06E-04	1.14E-03		1.14E-03	
Arocior-1254		2.00E+00	2.00E-05		4.34E-08	1,22E-07	8.69E-08	6.08E-03	
Benzo(a)anthracen	е	7.30E-01	·		5.04E-08	1.41E-07	3.68E-08		
Benzo(a)pyrene		7.30E+00	_		5.92E-08	1.66E-07	4.32E-07		
Benzo(b)fluoranthe	ne	7.30E-01	_		7.37E-08	2.06E-07	5.38E-08		
Benzo(k)fluoranthe		7.30E-02	_		2.22E-08	6.21E-08	1.62E-09		
			_		1.39E-08		1.02E-09		
Dibenz(a,h)anthrac	G1 1G	7.30E+00	E 005 05			3.88E-08		C 00F 00	
Dieldrin		1.60E+01	a.uuE-05		1.23E-10	3.45E-10	1.97E-09	6.90E-06	
Indeno(1,2,3-cd)pyi	rene	7.30E-01			4.47E-08	1.25E-07	3,26E-08		
Iron			7.00E-01		1.02E-03	2.87E-03		4.10E-03	
Isopropylbenzene (cumene)	-	1.00E-01		5.06E-07	1.42E-06		1.42E-05	
Lead	•	_	_ `		6.11E-06	1.71E-05			
Napthalene		-	2.00E-02		1.63E-07	4,56E-07		2.28E-05	
				PAT	HWAY TOTA	L=	7.48E-07	1.14E-02	
DEDMAL CONTAC	·								
DERMAL CONTAC	<i>i</i> 1								
Chemical		Slope Factor	RfD		intake Carc	Intake Noncarc	Cancer Risk	Hazard Quotient	
Orientical		I actor			Uaic	Noncare	IVION	Quotient	
4,4-DDD		2.40E-01	_		1.33E-09	3.72E-09	3.19E-10		
Aluminum			1.00E+00		1.42E-05	3.98E-05		3.98E-05	
Aroclor-1254		2.00E+00	2.00E-05		2.13E-08	5.96E-08	4.26E-08	2.98E-03	
Benzo(a)anthracen	_	7,30E-01			2.13E-08	6.42E-08	1.68E-08	0000	
	-	7.30E+00			2.69E-08	7.54E-08	1.97E-07		
Benzo(a)pyrene									
Benzo(b)fluoranthe		7.30E-01	-		3.36E-08	9.39E-08	2.45E-08		
Benzo(k)fluoranthe		7.30E-02	_		1.01E-08	2,83E-08	7.37E-10		
Dibenz(a,h)anthrac	ene	7.30E+00	_		6,30E-09	1.77E-08	4.60E-08		
Dieldrin		1.60E+01	5.00E-05		5.61E-11	1.57E-10	8.98E-10	3.14E-06	
Indeno(1,2,3-cd)pyr	rene	7.30E-01	_		2,03E-08	5,69E-08	1.48E-08		
iron			7.00E-01		3,59E-05	1.00E-04		1.43E-04	
Isopropylbenzene (cumene)	_	1.00E-01		2.30E-07	6.45E-07		6.45E-06	
Lead					2.14E-07	5.98E-07		3	
Napthalene		_	2.00E-02		7.41E-08	2.08E-07		1.04E-05	
				DATI	HWAY TOTA	1 =	3,43E-07	3.18E-03	
				LFAII	IVAN TOTA	<u></u>	0,402401	J. 10E-03	
INHALATION									
		IUR	RfC		EAC	EAC	Cancer	Hazard	
Chemical					arc (ug/m3)	Noncarc (mg/m3)	Risk	Quotient	
			_		6.81E-11	1.91E-13			
4 4-DDD		_			O,010-11			7.82E-05	
		_	5.00E.02		1.40=-04	3 015.07			
Aluminum		- - 5705.04	5.00E-03		1.40E-04	3.91E-07	0.725.42	1.02E-03	
Aluminum Aroclor-1254		- 5.70E-04	5.00E-03 -		1.70E-08	4.77E-11	9.72E-12	7.62E-03	
Aluminum Aroclor-1254 Benzo(a)anthracen	e	8.80E-05	5.00E-03 - -		1.70E-08 2.84E-08	4.77E-11 7.96E-11	2.50E-12	7,82E-03	
Aluminum Aroclor-1254 Benzo(a)anthracen Benzo(a)pyrene		8,80E-05 8,80E-04	5.00E-03 - - -		1.70E-08 2.84E-08 3.42E-08	4.77E-11 7.96E-11 9.58E-11	2.50E-12 3.01E-11	7.62E-03	
Aluminum Aroclor-1254 Benzo(a)anthracen Benzo(a)pyrene Benzo(b)fluoranthe	ne	8.80E-05 8.80E-04 8.80E-05	5.00E-03 		1.70E-08 2.84E-08 3.42E-08 3.85E-08	4.77E-11 7.96E-11 9.58E-11 1.08E-10	2.50E-12 3.01E-11 3.38E-12	7.02E-03	
Aluminum Aroclor-1254 Benzo(a)anthracen Benzo(a)pyrene Benzo(b)fluoranthe	ne	8,80E-05 8,80E-04	5.00E-03 		1.70E-08 2.84E-08 3.42E-08	4.77E-11 7.96E-11 9.58E-11	2.50E-12 3.01E-11	7.62E-03	
Aluminum Aroclor-1254 Benzo(a)anthracen Benzo(a)pyrene Benzo(b)fluoranthe Benzo(k)fluoranthe	ne ne	8.80E-05 8.80E-04 8.80E-05	- - -		1.70E-08 2.84E-08 3.42E-08 3.85E-08	4.77E-11 7.96E-11 9.58E-11 1.08E-10	2.50E-12 3.01E-11 3.38E-12	7.62E-03	
Aluminum Aroclor-1254 Benzo(a)anthracen Benzo(a)pyrene Benzo(b)fluoranthei Benzo(k)fluoranthei Dibenz(a,h)anthrac	ne ne	8,80E-05 8,80E-04 8,80E-05 8,80E-06	- - - -		1.70E-08 2.84E-08 3.42E-08 3.85E-08 1.53E-08	4.77E-11 7.96E-11 9.58E-11 1.08E-10 4.28E-11	2.50E-12 3.01E-11 3.38E-12 1.35E-13	7.82E-05	
Aluminum Aroclor-1254 Benzo(a)anthracen Benzo(a)pyrene Benzo(b)fluoranthei Benzo(k)fluoranthei Dibenz(a,h)anthraci Dieldrin	ne ne ene	8.80E-05 8.80E-04 8.80E-05 8.80E-06 8.80E-04 4.60E-03	- - - -		1.70E-08 2.84E-08 3.42E-08 3.85E-08 1.53E-08 8.52E-09 7.05E-11	4.77E-11 7.96E-11 9.58E-11 1.08E-10 4.28E-11 2.39E-11 1.97E-13	2.50E-12 3.01E-11 3.38E-12 1.35E-13 7.50E-12 3.24E-13	7.82E-03	
Aluminum Arcclor-1254 Benzo(a)anthracen Benzo(a)pyrene Benzo(b)fluoranthei Benzo(k)fluoranthei Dibenz(a,h)anthraci Dieldrin Indeno(1,2,3-cd)pyr	ne ne ene	8.80E-05 8.80E-04 8.80E-05 8.80E-06 8.80E-04	- - - -		1.70E-08 2.84E-08 3.42E-08 3.85E-08 1.53E-08 8.52E-09 7.05E-11 2.62E-08	4.77E-11 7.96E-11 9.58E-11 1.08E-10 4.28E-11 2.39E-11 1.97E-13 7.33E-11	2.50E-12 3.01E-11 3.38E-12 1.35E-13 7.50E-12	7.82E-05	
Aluminum Aroclor-1254 Benzo(a)anthracen Benzo(a)pyrene Benzo(b)fluoranthei Benzo(k)fluoranthei Dibenz(a,h)anthrac Dieldrin Indeno(1,2,3-cd)pyr Iron	ne ne ene rene	8.80E-05 8.80E-04 8.80E-05 8.80E-04 4.60E-03 8.80E-05			1.70E-08 2.84E-08 3.42E-08 3.85E-08 1.53E-08 8.52E-09 7.05E-11 2.62E-08 4.19E-04	4.77E-11 7.96E-11 9.58E-11 1.08E-10 4.28E-11 2.39E-11 1.97E-13 7.33E-11 1.17E-06	2.50E-12 3.01E-11 3.38E-12 1.35E-13 7.50E-12 3.24E-13		
Aluminum Aroclor-1254 Benzo(a)anthracen Benzo(a)pyrene Benzo(b)fluoranthei Benzo(k)fluoranthei Dibenz(a,h)anthrac Dieldrin Indeno(1,2,3-cd)pyi Iron Isopropylbenzene (i	ne ne ene rene	8.80E-05 8.80E-04 8.80E-05 8.80E-06 8.80E-04 4.60E-03	- - - -		1.70E-08 2.84E-08 3.42E-08 3.85E-08 1.53E-08 8.52E-09 7.05E-11 2.62E-08 4.19E-04 2.02E-07	4.77E-11 7.96E-11 9.56E-11 1.08E-10 4.28E-11 2.39E-11 1.97E-13 7.33E-11 1.17E-06 5.67E-10	2.50E-12 3.01E-11 3.38E-12 1.35E-13 7.50E-12 3.24E-13	1.42E-09	
Aluminum Aroclor-1254 Benzo(a)pytene Benzo(k)fluoranthei Benzo(k)fluoranthei Dibenz(a,h)anthraci Dieldrin Indeno(1,2,3-cd)pyriron Isopropylbenzene (i Lead	ne ne ene rene	8.80E-05 8.80E-04 8.80E-05 8.80E-06 8.80E-04 4.60E-03 8.80E-05	 4.00E-01		1.70E-08 2.84E-08 3.42E-08 3.85E-08 1.53E-08 1.53E-09 7.05E-11 2.62E-08 4.19E-04 2.02E-07 1.98E-06	4.77E-11 7.96E-11 9.58E-11 1.08E-10 4.28E-11 2.39E-11 1.97E-13 7.33E-11 1.17E-06 5.67E-10 5.56E-09	2.50E-12 3.01E-11 3.38E-12 1.35E-13 7.50E-12 3.24E-13	1.42E-09	
Aluminum Aroclor-1254 Benzo(a)pytene Benzo(k)fluoranthei Benzo(k)fluoranthei Dibenz(a,h)anthraci Dieldrin Indeno(1,2,3-cd)pyriron Isopropylbenzene (i Lead	ne ne ene rene	8.80E-05 8.80E-04 8.80E-05 8.80E-04 4.60E-03 8.80E-05			1.70E-08 2.84E-08 3.42E-08 3.85E-08 1.53E-08 8.52E-09 7.05E-11 2.62E-08 4.19E-04 2.02E-07	4.77E-11 7.96E-11 9.56E-11 1.08E-10 4.28E-11 2.39E-11 1.97E-13 7.33E-11 1.17E-06 5.67E-10	2.50E-12 3.01E-11 3.38E-12 1.35E-13 7.50E-12 3.24E-13		
4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracen Benzo(a)pyrene Benzo(k)fluoranthei Benzo(k)fluoranthei Dibenz(a,h)anthraci Dibenz(a,h)anthraci Dideno(1,2,3-cd)pyr Iron Isopropylbenzene (i Lead Napthalene	ne ne ene rene	8.80E-05 8.80E-04 8.80E-05 8.80E-06 8.80E-04 4.60E-03 8.80E-05	 4.00E-01	PATE	1.70E-08 2.84E-08 3.42E-08 3.85E-08 1.53E-08 1.53E-09 7.05E-11 2.62E-08 4.19E-04 2.02E-07 1.98E-06	4.77E-11 7.96E-11 9.58E-11 1.08E-10 4.28E-11 2.39E-11 1.97E-13 7.33E-11 1.17E-06 5.67E-10 5.56E-09 1.82E-10	2.50E-12 3.01E-11 3.38E-12 1.35E-13 7.50E-12 3.24E-13	1.42E-09	

TABLE D-4 RISK/HAZARD CALCULATIONS FOR SOIL SOUTH OF MARLIN AVERAGE – CONSTRUCTION WORKER

1	Intake*CSF		HQ =	Intake / RfD				-,	
	or EAC * IUR			or EAC / RfC	•				
				LAG / RIG					
	Definition						Default		
	Intake of che						see intake		
	Effective Air						see intake		
	Cancer slope			1			see chemprop		
	Inhalation un						see chemprop		
	Reference de						see chemprop		
RfC	Inhalation rei	ierence co	ncentration	n (mg/m^3)			see chemprop		
INGESTION									
Chemical		Slope Factor	RfD		Intake Carc	Intake Noncarc	Cancer Risk	Hazard Quotient	
4,4-DDD	:	2.40E-01			6.36E-11	4.45E-09	1.53E-11		
Aluminum		_	1.00E+00		5,36E-05	3.75E-03		3.75E-03	
Aroclor-1254	2	2.00E+00	2.00E-05		1.70E-09	1.19E-07	3.40E-09	5.96E-03	
Benzo(a)anthracene	э :	7.30E-01	_		2.23E-09	1.56E-07	1.62E-09		
Benzo(a)pyrene		7.30E+00	_		2.88E-09	2.02E-07	2.10E-08		
Benzo(b)fluoranther		7.30E-01	_		3.87E-09	2.71E-07	2,82E-09	•	
Benzo(k)fluoranther		7.30E-02	_		1.30E-09	9.13E-08	9.52E-11		
Dibenz(a,h)anthrace		7.30E+00	_		9.38E-10	6.57E-08	6.85E-09		
Dieldrin		1.60E+01	5.00E-05		7.48E-12	5.24E-10	1.20E-10	1.05E-05	
		7.30E-01	0.002-00		7.48E-12 3.06E-09		1.20E-10 2.23E-09	1.000-00	
Indeno(1,2,3-cd)pyr	C110		7.005.04		1.19E-04	2.14E-07	∠.∠3E-U8	1 105 00	
Iron		-	7.00E-01			8.30E-03		1.19E-02	
Isopropylbenzene (c	cumene)		1.00E-01		6.90E-09	4.83E-07		4.83E-06	
Lead Napthalene		_	2.00E-02		4.44E-07 2.68E-09	3.11E-05 1.88E-07		9.39E-06	
Tapa ale 16		_	2.005-02						•
				PATI	ATOT YAWH	L =	3.82E-08	2.16E-02	<u> </u>
DERMAL CONTAC	Т				·				
		Class	D4D		latal: a	Intales	0	Hamand	
Chemical		Slope Factor	RfD		Intake Carc	Intake Noncarc	Cancer Risk	Hazard Quotient	
			,		-				
4,4-DDD		2.40E-01			2.32E-11	1.62E-09	5.56E-12		
Aluminum		_	1.00E+00		1.50E-06	1.05E-04		1.05E-04	
Aroclor-1254	5	2.00E+00	2.00E-05		6.67E-10	4.67E-08	1.33E-09	2.34E-03	
Benzo(a)anthracene		7.30E-01			8,10E-10	5,67E-08	5,91E-10		
Benzo(a)pyrene		7.30E+00	_		1.05E-09	7.34E-08	7.66E-09		
Benzo(b)fluoranther		7.30E+00	_		1.41E-09	9.86E-08	1.03E-09		
			_			9.86E-08 3.32E-08			
Benzo(k)fluoranther		7.30E-02	-		4.75E-10		3,46E-11		
Dibenz(a,h)anthrace		7.30E+00			3.42E-10	2.39E-08	2.49E-09	0.045.00	
Dieldrin		1.60E+01	5.00E-05		2.72E-12	1.91E-10	4.36E-11	3.81E-06	
Indeno(1,2,3-cd)pyr		7 205 04			1.11E-09				
Iron	ene	7.30E-01				7.79E-08	8.12E-10		
		7.30E-01	7.00E-01		3.32E-06	2.32E-04	8.12E-10	3.32E-04	
Isopropylbenzene (d		7.30E-01 	7.00E-01 1.00E-01		2.51E-09	2.32E-04 1.76E-07	8.12E-10	3.32E-04 1.76E-06	
lsopropylbenzene (d Lead		- -	1.00E-01 -		2.51E-09 1.24E-08	2.32E-04 1.76E-07 8.71E-07	8.12E-10	1.76E-06	
lsopropylbenzene (d Lead Napthalene		7.30E-01 			2.51E-09	2.32E-04 1.76E-07	8.12E-10		
lsopropylbenzene (d Lead		- -	1.00E-01 -	PATH	2.51E-09 1.24E-08	2.32E-04 1.76E-07 8.71E-07 6.83E-08	8.12E-10 1.40E-08	1.76E-06	1
Isopropylbenzene (d Lead Napthalene		- -	1.00E-01 -	PATI	2.51E-09 1.24E-08 9.76E-10	2.32E-04 1.76E-07 8.71E-07 6.83E-08		1.76E-06 3.42E-06	1
lsopropylbenzene (d Lead Napthalene			1.00E-01 2.00E-02	PATI	2.51E-09 1.24E-08 9.76E-10	2.32E-04 1.76E-07 8.71E-07 6.83E-08	1.40E-08	1.76E-06 3.42E-06 2.78E-03	1
Isopropylbenzene (d Lead Napthalene INHALATION		- -	1.00E-01 -		2.51E-09 1.24E-08 9.76E-10 HWAY TOTA EAC	2.32E-04 1.76E-07 8.71E-07 6.83E-08 L =	1.40E-08	1.76E-06 3.42E-06 2.78E-03]
lsopropylbenzene (d Lead			1.00E-01 2.00E-02		2.51E-09 1.24E-08 9.76E-10 HWAY TOTA EAC	2.32E-04 1.76E-07 8.71E-07 6.83E-08	1.40E-08	1.76E-06 3.42E-06 2.78E-03	
Isopropylbenzene (d Lead Napthalene INHALATION Chemical			1.00E-01 2.00E-02		2.51E-09 1.24E-08 9.76E-10 HWAY TOTA EAC	2.32E-04 1.76E-07 8.71E-07 6.83E-08 L =	1.40E-08	1.76E-06 3.42E-06 2.78E-03	
Isopropylbenzene (d Lead Napthalene INHALATION Chemical			1.00E-01 2.00E-02 RfC		2.51E-09 1.24E-08 9.76E-10 HWAY TOTA EAC carc (ug/m3)	2.32E-04 1.76E-07 8.71E-07 6.83E-08 L = EAC Noncarc (mg/m3)	1.40E-08	1.76E-06 3.42E-06 2.78E-03	1
Isopropylbenzene (d Lead Napthalene INHALATION Chemical 4,4-DDD Aluminum	cumene)	IUR	1.00E-01 2.00E-02		2.51E-09 1.24E-08 9.76E-10 HWAY TOTA EAC Carc (ug/m3) 2.78E-12 1.88E-05	2.32E-04 1.76E-07 8.71E-07 6.83E-08 L = EAC Noncarc (mg/m3) 1.95E-13 1.32E-06	1.40E-08 Cancer Risk	1.76E-06 3.42E-06 2.78E-03 Hazard Quotient	
Isopropylbenzene (d Lead Napthalene INHALATION Chemical 4,4-DDD Aluminum Aroclor-1254	cumene)	IUR 5.70E-04	1.00E-01 2.00E-02 RfC		2.51E-09 1.24E-08 9.76E-10 HWAY TOTA EAC carc (ug/m3) 2.78E-12 1.88E-05 4.83E-10	2.32E-04 1.76E-07 8.71E-07 6.83E-08 L = EAC Noncarc (mg/m3) 1.95E-13 1.32E-06 3.38E-11	1.40E-08 Cancer Risk 2.75E-13	1.76E-06 3.42E-06 2.78E-03 Hazard Quotient	1
Isopropylbenzene (d Lead Napthalene INHALATION Chemical 4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene	cumene)	IUR 5.70E-04	1.00E-01 2.00E-02 RfC		2.51E-09 1.24E-08 9.76E-10 HWAY TOTA EAC carc (ug/m3) 2.78E-12 1.88E-05 4.83E-10 1.22E-09	2.32E-04 1.76E-07 8.71E-07 6.83E-08 L = EAC Noncarc (mg/m3) 1.95E-13 1.32E-06 3.38E-11 8.51E-11	1.40E-08 Cancer Risk 2.75E-13 1.07E-13	1.76E-06 3.42E-06 2.78E-03 Hazard Quotient	
Isopropylbenzene (d Lead Napthalene INHALATION Chemical 4,4-DDD Aluminum Aroctor-1254 Benzo(a)anthracene Benzo(a)pyrene	cumene)	IUR 	1.00E-01 2.00E-02 RfC 		2.51E-09 1.24E-08 9.76E-10 HWAY TOTA EAC carc (ug/m3) 2.78E-12 1.88E-05 4.83E-10 1.22E-09 1.61E-09	2.32E-04 1.76E-07 8.71E-07 6.83E-08 L = EAC Noncarc (mg/m3) 1.95E-13 1.32E-06 3.38E-11 8.51E-11 1.13E-10	1.40E-08 Cancer Risk 2.75E-13 1.07E-13 1.42E-12	1.76E-06 3.42E-06 2.78E-03 Hazard Quotient	
Isopropylbenzene (d Lead Napthalene INHALATION Chemical 4.4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(b)fluoranther	cumene)	IUR 5.70E-04 8.80E-05 8.80E-04 8.80E-05	1.00E-01 2.00E-02 RfC		2.51E-09 1.24E-08 9.76E-10 HWAY TOTA EAC carc (ug/m3) 2.78E-12 1.88E-05 4.83E-10 1.22E-09 1.61E-09 2.05E-09	2.32E-04 1.76E-07 8.71E-07 6.83E-08 L = EAC Noncarc (mg/m3) 1.95E-13 1.32E-06 3.38E-11 8.51E-11 1.13E-10 1.44E-10	1.40E-08 Cancer Risk 2.75E-13 1.07E-13 1.42E-12 1.80E-13	1.76E-06 3.42E-06 2.78E-03 Hazard Quotient	1
Isopropylbenzene (d Lead Napthalene INHALATION Chemical 4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(b)fluoranther Benzo(k)fluoranther	cumene)	IUR 5.70E-04 8.80E-05 8.80E-05 8.80E-05	1.00E-01 2.00E-02 RfC 		2.51E-09 1.24E-08 9.76E-10 HWAY TOTA EAC carc (ug/m3) 2.78E-12 1.88E-05 4.83E-10 1.22E-09 1.61E-09 2.05E-09 8.45E-10	2.32E-04 1.76E-07 8.71E-07 6.83E-08 L = EAC Noncarc (mg/m3) 1.95E-13 1.32E-06 3.38E-11 8.51E-11 1.13E-10 1.44E-10 5.92E-11	1.40E-08 Cancer Risk 2.75E-13 1.07E-13 1.42E-12 1.80E-13 7.44E-15	1.76E-06 3.42E-06 2.78E-03 Hazard Quotient	
Isopropylbenzene (d Lead Napthalene INHALATION Chemical 4,4-DDD Aluminum Arocior-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranther Benzo(b)fluoranther Benzo(a,h)anthrace	cumene)	IUR 5.70E-04 8.80E-05 8.80E-04 8.80E-06 8.80E-06 8.80E-06	1.00E-01 2.00E-02 RfC 		2.51E-09 1.24E-08 9.76E-10 HWAY TOTA EAC carc (ug/m3) 2.78E-12 1.88E-05 4.83E-10 1.22E-09 1.61E-09 2.05E-09 8.45E-10 5.46E-10	2.32E-04 1.76E-07 8.71E-07 6.83E-08 L = EAC Noncarc (mg/m3) 1.95E-13 1.32E-06 3.38E-11 8.51E-11 1.13E-10 1.44E-10 5.92E-11 3.82E-11	2.75E-13 1.07E-13 1.42E-12 1.80E-13 7.44E-15 4.80E-13	1.76E-06 3.42E-06 2.78E-03 Hazard Quotient	
Isopropylbenzene (d Lead Napthalene INHALATION Chemical 4,4-DDD Aluminum Arocior-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranther Benzo(b)fluoranther Bibenzo(a,h)anthrace Dieldrin	cumene)	IUR 5.70E-04 8.80E-05 8.80E-04 8.80E-04 4.60E-03	1.00E-01 2.00E-02 RfC 		2.51E-09 1.24E-08 9.76E-10 HWAY TOTA EAC carc (ug/m3) 2.78E-12 1.88E-05 4.83E-10 1.22E-09 1.61E-09 2.06E-08 8.45E-10 3.51E-12	2.32E-04 1.76E-07 8.71E-07 6.83E-08 L = EAC Noncarc (mg/m3) 1.95E-13 1.32E-06 3.38E-11 8.51E-11 1.13E-10 1.44E-10 5.92E-11 3.82E-11 2.46E-13	1.40E-08 Cancer Risk 2.75E-13 1.07E-13 1.42E-12 1.80E-13 7.44E-15 4.80E-13 1.62E-14	1.76E-06 3.42E-06 2.78E-03 Hazard Quotient	<u> </u>
Isopropylbenzene (d Lead Napthalene INHALATION Chemical 4,4-DDD Aluminum Aroctor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranther Benzo(k)fluoranther Dibenz(a,h)anthrace Dieldrin Indeno(1,2,3-cd)pyre	cumene)	IUR 5.70E-04 8.80E-05 8.80E-04 8.80E-06 8.80E-06 8.80E-06	1.00E-01 2.00E-02 RfC 		2.51E-09 1.24E-08 9.76E-10 HWAY TOTA EAC carc (ug/m3) 2.78E-12 1.88E-05 4.83E-10 1.22E-09 1.61E-09 2.05E-09 8.45E-10 5.46E-10 3.51E-12 1.66E-09	2.32E-04 1.76E-07 8.71E-07 6.83E-08 L = EAC Noncarc (mg/m3) 1.95E-13 1.32E-06 3.38E-11 8.51E-11 1.13E-10 1.44E-10 5.92E-11 3.82E-11 2.46E-13 1.16E-10	2.75E-13 1.07E-13 1.42E-12 1.80E-13 7.44E-15 4.80E-13	1.76E-06 3.42E-06 2.78E-03 Hazard Quotient	
Isopropylbenzene (d Lead Napthalene INHALATION Chemical 4,4-DDD Aluminum Aroctor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranther Benzo(k)fluoranther Dibenz(a,h)anthrace Dieldrin Indeno(1,2,3-cd)pyre	cumene)	IUR 5.70E-04 8.80E-05 8.80E-04 8.80E-04 4.60E-03	1.00E-01 2.00E-02 RfC 		2.51E-09 1.24E-08 9.76E-10 HWAY TOTA EAC carc (ug/m3) 2.78E-12 1.88E-05 4.83E-10 1.22E-09 1.61E-09 2.06E-08 8.45E-10 3.51E-12	2.32E-04 1.76E-07 8.71E-07 6.83E-08 L = EAC Noncarc (mg/m3) 1.95E-13 1.32E-06 3.38E-11 8.51E-11 1.13E-10 1.44E-10 5.92E-11 3.82E-11 2.46E-13	1.40E-08 Cancer Risk 2.75E-13 1.07E-13 1.42E-12 1.80E-13 7.44E-15 4.80E-13 1.62E-14	1.76E-06 3.42E-06 2.78E-03 Hazard Quotient	
Isopropylbenzene (d Lead Napthalene INHALATION Chemical 4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(b)fluoranther Benzo(k)fluoranther Dibenz(a,h)anthrace Dibenz(a,h)anthrace Dieddrin Indeno(1,2,3-cd)pyrd	cumene)	IUR 5.70E-04 8.80E-05 8.80E-04 8.80E-04 4.60E-03	1.00E-01 2.00E-02 RfC 		2.51E-09 1.24E-08 9.76E-10 HWAY TOTA EAC carc (ug/m3) 2.78E-12 1.88E-05 4.83E-10 1.22E-09 1.61E-09 2.05E-09 8.45E-10 5.46E-10 3.51E-12 1.66E-09	2.32E-04 1.76E-07 8.71E-07 6.83E-08 L = EAC Noncarc (mg/m3) 1.95E-13 1.32E-06 3.38E-11 8.51E-11 1.13E-10 1.44E-10 5.92E-11 3.82E-11 2.46E-13 1.16E-10	1.40E-08 Cancer Risk 2.75E-13 1.07E-13 1.42E-12 1.80E-13 7.44E-15 4.80E-13 1.62E-14	1.76E-06 3.42E-06 2.78E-03 Hazard Quotient	<u> </u>
Isopropylbenzene (d Lead Napthalene INHALATION Chemical 4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(b)fluoranther Benzo(b)fluoranther Dibenz(a,h)anthrace Dieldrin Indeno(1,2,3-cd)pyru Iron Isopropylbenzene (d	cumene)	IUR 5.70E-04 8.80E-05 8.80E-04 8.80E-04 4.60E-03 8.80E-04	1.00E-01 2.00E-02 RfC 		2.51E-09 1.24E-08 9.76E-10 HWAY TOTA EAC carc (ug/m3) 2.78E-12 1.88E-05 4.83E-10 1.22E-09 1.61E-09 2.05E-09 8.45E-10 5.46E-10 3.51E-12 1.66E-09 5.74E-05	2.32E-04 1.76E-07 8.71E-07 6.83E-08 L = EAC Noncarc (mg/m3) 1.95E-13 1.32E-06 3.38E-11 8.51E-11 1.13E-10 1.44E-10 5.92E-11 3.82E-11 2.46E-13 1.16E-10 4.02E-06	1.40E-08 Cancer Risk 2.75E-13 1.07E-13 1.42E-12 1.80E-13 7.44E-15 4.80E-13 1.62E-14	1.76E-06 3.42E-06 2.78E-03 Hazard Quotient 2.63E-04	
Isopropylbenzene (c Lead Napthalene INHALATION Chemical 4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranther Dibenz(a,h)anthrace Dieldrin Indeno(1,2,3-cd)pyriron Isopropylbenzene (c	cumene)	IUR 5.70E-04 8.80E-05 8.80E-04 8.80E-04 4.60E-03 8.80E-04	1.00E-01 2.00E-02 RfC 		2.51E-09 1.24E-08 9.76E-10 HWAY TOTA EAC carc (ug/m3) 2.78E-12 1.88E-05 4.83E-10 1.22E-09 1.61E-09 2.05E-09 8.45E-10 3.51E-12 1.66E-09 5.74E-05 2.93E-09	2.32E-04 1.76E-07 8.71E-07 6.83E-08 L = EAC Noncarc (mg/m3) 1.95E-13 1.32E-06 3.38E-11 1.13E-10 1.44E-10 5.92E-11 3.82E-11 2.46E-13 1.16E-10 4.02E-06 2.05E-10	1.40E-08 Cancer Risk 2.75E-13 1.07E-13 1.42E-12 1.80E-13 7.44E-15 4.80E-13 1.62E-14	1.76E-06 3.42E-06 2.78E-03 Hazard Quotient 2.63E-04	
Isopropylbenzene (d Lead Napthalene INHALATION	cumene)	IUR 5.70E-04 8.80E-05 8.80E-04 8.80E-04 4.60E-03 8.80E-04	1.00E-01 2.00E-02 RfC	C	2.51E-09 1.24E-08 9.76E-10 HWAY TOTA EAC carc (ug/m3) 2.78E-12 1.88E-05 4.83E-10 1.22E-09 1.61E-09 2.05E-09 8.45E-10 3.51E-12 1.66E-09 5.74E-05 2.93E-09 2.45E-07	2.32E-04 1.76E-07 8.71E-07 6.83E-08 L = EAC Noncarc (mg/m3) 1.95E-13 1.32E-06 3.38E-11 8.51E-11 1.13E-10 1.44E-10 5.92E-11 3.82E-11 2.46E-13 1.16E-10 4.02E-06 2.05E-10 1.72E-08 7.96E-11	1.40E-08 Cancer Risk 2.75E-13 1.07E-13 1.42E-12 1.80E-13 7.44E-15 4.80E-13 1.62E-14	1.76E-06 3.42E-06 2.78E-03 Hazard Quotient 2.63E-04	
Isopropylbenzene (c Lead Napthalene INHALATION Chemical 4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranther Dibenz(a,h)anthrace Dieldrin Indeno(1,2,3-cd)pyriron Isopropylbenzene (c	cumene)	IUR 5.70E-04 8.80E-05 8.80E-04 8.80E-04 4.60E-03 8.80E-04	1.00E-01 2.00E-02 RfC	C	2.51E-09 1.24E-08 9.76E-10 HWAY TOTA EAC carc (ug/m3) 2.78E-12 1.88E-05 4.83E-10 1.22E-09 1.61E-09 2.05E-09 8.45E-10 5.46E-10 3.51E-12 1.66E-09 5.74E-05 2.93E-09 2.45E-07 1.14E-09	2.32E-04 1.76E-07 8.71E-07 6.83E-08 L = EAC Noncarc (mg/m3) 1.95E-13 1.32E-06 3.38E-11 8.51E-11 1.13E-10 1.44E-10 5.92E-11 3.82E-11 2.46E-13 1.16E-10 4.02E-06 2.05E-10 1.72E-08 7.96E-11	2.75E-13 1.07E-13 1.42E-12 1.80E-13 7.44E-15 4.80E-13 1.62E-14 1.46E-13	1.76E-06 3.42E-06 2.78E-03 Hazard Quotient 2.63E-04 5.12E-10 2.65E-08	

TABLE D-5 RISK/HAZARD CALCULATIONS FOR SOIL SOUTH OF MARLIN RME -- CONSTRUCTION WORKER

1	Intake*CSI	F	HQ =	Intake / RfD					
	or EAC * IUR			or EAC / RfC					
		•							
Parameter_	Definition	hamla-17:					Default		
Intake		hemical (mg		401			see intake		
EAC		ir Concentr					see intake		
CSF		pe factor (m		1			see chempror		
IUR		unit risk (ug/					see chemprop		
RfD		dose (mg/k					see chempror		
RfC	Inhalation	reference co	ncentration	n (mg/m^3)			see chemprop)	
INGESTION									
Chemical		Slope Factor	RfD		Intake Carc	Intake Noncarc	Cancer Risk	Hazard Quotient	
4.4.000		2.40=.04			2 205 00	4 64E 07	E E4E 10		
4,4-DDD		2.40E-01	4.005.00		2.30E-09	1.61E-07	5.51E-10	0.005.00	
Aluminum			1.00E+00		3.19E-04	2.23E-02	0.005.00	2.23E-02	
Aroclor-1254		2.00E+00	2.00E-05		3.41E-08	2.39E-06	6.83E-08	1.19E-01	
Benzo(a)anthracen	е	7.30E-01			3.96E-08	2.77E-06	2.89E-08		
Benzo(a)pyrene		7.30E+00			4.65E-08	3.25E-06	3,39E-07		
Benzo(b)fluoranthe	ne	7.30E-01			5.79E-08	4.06E-06	4,23E-08	•	
Benzo(k)fluoranthe		7.30E-02	_		1.74E-08	1.22E-06	1,27E-09		
Dibenz(a,h)anthrac		7.30E+00	_		1.09E-08	7.62E-07	7.95E-08		
Dieldrin		1.60E+01	5.00E-05		9,69E-11	6.78E-09	1.55E-09	1.36E-04	
Indeno(1,2,3-cd)pyr	rona		J.50E-05					1.002-04	
	CIT	7.30E-01	7.005.01		3.51E-08	2.46E-06	2.56E-08	9.055.00	
Iron		-	7.00E-01		8.05E-04	5.64E-02		8.05E-02	
Isopropylbenzene (cumene)	_	1.00E-01		3.98E-07	2.78E-05		2.78E-04	
Lead		-	-		4,80E-06	3.36E-04			
Napthalene		-	2.00E-02		1.28E-07	8.96E-06		4.48E-04	ريسية .
				PATI	HWAY TOTAL	, =	5.87E-07	2.23E-01	
						<u></u> -			
DERMAL CONTAC	т								
		Slope	RfD		Intake	Intake	Cancer	Hazard	
Chemical		Factor			Carc	Noncarc	Risk	Quotient	
4,4-DDD		2,40E-01	_		8,96E-10	6,27E-08	2.15E-10		
Aluminum			1.00E+00			6.70E-04	2.102-10	6.70E-04	
					9.57E-06		0.075.00	6.70E-04	
Aroclor-1254		2.00E+00	2.00E-05		1.43E-08	1,00E-06	2.87E-08	5.02E-02	
Benzo(a)anthracen	e	7,30E-01	_		1.55E-08	1.08E-06	1.13E-08		
Benzo(a)pyrene		7.30E+00	_		1.81E-08	1.27E-06	1.32E-07		
Benzo(b)fluoranthe		7.30E-01	-		2,26E-08	1.58E-06	1.65E-08		
Benzo(k)fluoranther	ne	7.30E-02	_		6,80E-09	4.76E-07	4.96E-10		
Dibenz(a,h)anthrac		7.30E+00			4.25E-09	2.97E-07	3.10E-08		
Dieldrin		1.60E+01	5,00E-05		3.78E-11	2.64E-09	6.04E-10	5.29E-05	
Indeno(1,2,3-cd)pyr	ene	7.30E-01			1.37E-08	9.58E-07	9.99E-09	5.252 00	
	0.10	7.000-01	7.00E-01				3,352-08	2 42= 02	
iron		-			2.42E-05	1.69E-03		2.42E-03	
Isopropyibenzene (cumene)	-	1.00E-01		1.55E-07	1.09E-05		1.09E-04	
Lead		-	2.005.00		1.44E-07	1.01E-05		4.7EC.04	
Napthalene			2.00E-02		4.99E-08	3,49E-06		1.75E-04	
				PATI	HATOT YAWK		0.045.07	E 20E 02	
						. -	2.31E-07	5.36E-02	
ΙΝΗΔΙ ΔΤΙΩΝ						_ =	2.31E-U/	5.30E-U2	
INHALATION						_=	2.31E-07	5.36E-02	
		IUR	RfC		EAC	EAC	Cancer	Hazard	
INHALATION Chemical		IUR	RfC	C					
Chemical		IUR	RfC	C	arc (ug/m3)	EAC Noncarc (mg/m3)	Cancer	Hazard	
Chemical		IUR 		C	2.84E-11	EAC Noncarc (mg/m3) 1.99E-12	Cancer	Hazard Quotlent	
Chemical 4,4-DDD Aluminum		<u></u>	5.00E-03	C	2.84E-11 5.82E-05	EAC Noncarc (mg/m3) 1.99E-12 4.07E-06	Cancer Risk	Hazard	
Chemical 4,4-DDD Aluminum Aroclor-1254		 - 5.70E-04	5.00E-03	C	2.84E-11 5.82E-05 7.10E-09	EAC Noncarc (mg/m3) 1.99E-12 4.07E-06 4.97E-10	Cancer Risk 4.05E-12	Hazard Quotlent	
Chemical 4,4-DDD Aluminum Arocior-1254 Benzo(a)anthracen	e	 5.70E-04 8.80E-05	5.00E-03	C	2.84E-11 5.82E-05 7.10E-09 1.18E-08	EAC Noncarc (mg/m3) 1.99E-12 4.07E-06 4.97E-10 8.29E-10	Cancer Risk 4.05E-12 1.04E-12	Hazard Quotlent	
Chemical 4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracen Benzo(a)pyrene		 5.70E-04 8.80E-05 8.80E-04	5.00E-03	C	2.84E-11 5.82E-05 7.10E-09 1.18E-08 1.43E-08	EAC Noncarc (mg/m3) 1.99E-12 4.07E-06 4.97E-10 8.29E-10 9.98E-10	Cancer Risk 4.05E-12 1.04E-12 1.25E-11	Hazard Quotlent	
Chemical 4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracen Benzo(a)pyrene		 5.70E-04 8.80E-05	5.00E-03	C	2.84E-11 5.82E-05 7.10E-09 1.18E-08	EAC Noncarc (mg/m3) 1.99E-12 4.07E-06 4.97E-10 8.29E-10	Cancer Risk 4.05E-12 1.04E-12	Hazard Quotlent	
Chemical 4,4-DDD Aluminum Arocior-1254 Benzo(a)anthracen Benzo(a)byrene Benzo(b)fluoranther	ne	 5.70E-04 8.80E-05 8.80E-04	5.00E-03 	C	2.84E-11 5.82E-05 7.10E-09 1.18E-08 1.43E-08	EAC Noncarc (mg/m3) 1.99E-12 4.07E-06 4.97E-10 8.29E-10 9.98E-10	Cancer Risk 4.05E-12 1.04E-12 1.25E-11	Hazard Quotlent	
Chemical 4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracen Benzo(a)pyrene Benzo(b)fluoranthei	ne ne	5.70E-04 8.80E-05 8.80E-04 8.80E-05 8.80E-06	5.00E-03 	C	2.84E-11 5.82E-05 7.10E-09 1.18E-08 1.43E-08 1.60E-08 6.37E-09	EAC Noncarc (mg/m3) 1.99E-12 4.07E-06 4.97E-10 8.29E-10 9.98E-10 1.12E-09 4.46E-10	Cancer Risk 4.05E-12 1.04E-12 1.25E-11 1.41E-12 5.61E-14	Hazard Quotlent	
Chemical 4,4-DDD Aluminum Arocior-1254 Benzo(a)anthracene Benzo(b)fluoranthei Benzo(b)fluoranthei Benzo(A)anthracentheibenzo(a,h)anthracentheibenz(a,h)an	ne ne	 5.70E-04 8.80E-05 8.80E-04 8.80E-05 8.80E-06 8.80E-04	5.00E-03 	C	2.84E-11 5.82E-05 7.10E-09 1.18E-08 1.43E-08 1.60E-08 6.37E-09 3.55E-09	EAC Noncarc (mg/m3) 1.99E-12 4.07E-06 4.97E-10 8.29E-10 9.98E-10 1.12E-09 4.46E-10 2.49E-10	Cancer Risk 4.05E-12 1.04E-12 1.25E-11 1.41E-12 5.61E-14 3.13E-12	Hazard Quotlent	
Chemical 4,4-DDD Aluminum Aroctor-1254 Benzo(a)anthracene Benzo(b)fluoranthee Benzo(b)fluoranthee Benzo(b)fluoranthee Dibenz(a,h)anthracene	ne ne ene	5.70E-04 8.80E-05 8.80E-04 8.80E-06 8.80E-06 8.80E-04 4.60E-03	5.00E-03 	C	2.84E-11 5.82E-05 7.10E-09 1.18E-08 1.43E-08 1.60E-08 6.37E-09 3.55E-09 2.94E-11	EAC Noncarc (mg/m3) 1.99E-12 4.07E-06 4.97E-10 8.29E-10 9.98E-10 1.12E-09 4.46E-10 2.49E-10 2.05E-12	Cancer Risk 4.05E-12 1.04E-12 1.25E-11 1.41E-12 5.61E-14 3.13E-12 1.35E-13	Hazard Quotlent	
Chemical 4,4-DDD Aluminum Arocior-1254 Benzo(a)pyrene Benzo(b)fluoranthet Benzo(k)fluoranthet Dibenz(a,h)anthraco	ne ne ene	 5.70E-04 8.80E-05 8.80E-04 8.80E-05 8.80E-06 8.80E-04	5.00E-03 	, , , C	2.84E-11 5.82E-05 7.10E-09 1.18E-08 1.43E-08 1.60E-08 6.37E-09 2.54E-11 1.09E-08	EAC Noncarc (mg/m3) 1.99E-12 4.07E-06 4.97E-10 8.29E-10 1.12E-09 4.46E-10 2.49E-10 2.05E-12 7.64E-10	Cancer Risk 4.05E-12 1.04E-12 1.25E-11 1.41E-12 5.61E-14 3.13E-12	Hazard Quotlent	
Chemical 4,4-DDD Aluminum Arocior-1254 Benzo(a)anthracen Benzo(a)pyrene Benzo(b)fluoranthei Benzo(k)fluoranthei Dibenz(a,h)anthraci Dibenz(a,h)anthraci Indeno(1,2,3-cd)pyr Iron	ne ne ene rene	5.70E-04 8.80E-05 8.80E-05 8.80E-05 8.80E-06 8.80E-04 4.60E-03 8.80E-05	5.00E-03 	C	2.84E-11 5.82E-05 7.10E-09 1.18E-08 1.43E-08 1.60E-09 6.37E-09 3.55E-09 2.94E-11 1.09E-08 1.75E-04	EAC Noncarc (mg/m3) 1.99E-12 4.07E-06 4.97E-10 8.29E-10 9.98E-10 1.12E-09 4.46E-10 2.49E-10 2.05E-12 7.64E-10 1.22E-05	Cancer Risk 4.05E-12 1.04E-12 1.25E-11 1.41E-12 5.61E-14 3.13E-12 1.35E-13	Hazard Quotlent 8.15E-04	
Chemical 4,4-DDD Alumínum Arocior-1254 Benzo(a)anthracen Benzo(b)fluoranthei Dibenz(a,h)anthraci Dieldrin Indeno(1,2,3-cd)pyr Iron Isopropylbenzene (a	ne ne ene rene	5.70E-04 8.80E-05 8.80E-04 8.80E-06 8.80E-06 8.80E-04 4.60E-03	5.00E-03 	C	2.84E-11 5.82E-05 7.10E-09 1.18E-08 1.43E-08 1.60E-08 6.37E-09 2.54E-11 1.09E-08	EAC Noncarc (mg/m3) 1.99E-12 4.07E-06 4.97E-10 8.29E-10 9.98E-10 1.12E-09 4.46E-10 2.49E-10 2.05E-12 7.64E-10 1.22E-05 5.90E-09	Cancer Risk 4.05E-12 1.04E-12 1.25E-11 1.41E-12 5.61E-14 3.13E-12 1.35E-13	Hazard Quotlent	
Chemical 4,4-DDD Aluminum Arocior-1254 Benzo(a)anthracene Benzo(b)fluoranthee Benzo(k)fluoranthee Dibenz(a,h)anthrace Dieldrin Indeno(1,2,3-cd)pyr Isopropylbenzene (a	ne ne ene rene	5.70E-04 8.80E-05 8.80E-05 8.80E-05 8.80E-06 8.80E-04 4.60E-03 8.80E-05	5.00E-03 4.00E-01	C	2.84E-11 5.82E-05 7.10E-09 1.18E-08 1.43E-08 1.60E-09 6.37E-09 3.55E-09 2.94E-11 1.09E-08 1.75E-04	EAC Noncarc (mg/m3) 1.99E-12 4.07E-06 4.97E-10 8.29E-10 9.98E-10 1.12E-09 4.46E-10 2.49E-10 2.05E-12 7.64E-10 1.22E-05	Cancer Risk 4.05E-12 1.04E-12 1.25E-11 1.41E-12 5.61E-14 3.13E-12 1.35E-13	Hazard Quotlent 8.15E-04 1.48E-08	
Chemical	ne ne ene rene	5.70E-04 8.80E-05 8.80E-05 8.80E-05 8.80E-06 8.80E-04 4.60E-03 8.80E-05	5.00E-03 	C	2.84E-11 5.82E-05 7.10E-09 1.18E-08 1.43E-08 1.60E-09 3.55E-09 2.94E-11 1.09E-08 1.75E-04 8.43E-08	EAC Noncarc (mg/m3) 1.99E-12 4.07E-06 4.97E-10 8.29E-10 9.98E-10 1.12E-09 4.46E-10 2.49E-10 2.05E-12 7.64E-10 1.22E-05 5.90E-09	Cancer Risk 4.05E-12 1.04E-12 1.25E-11 1.41E-12 5.61E-14 3.13E-12 1.35E-13	Hazard Quotlent 8.15E-04	
Chemical 4,4-DDD Aluminum Arocior-1254 Benzo(a)anthracene Benzo(b)fluoranthee Benzo(k)fluoranthee Dibenz(a,h)anthrace Dieldrin Indeno(1,2,3-cd)pyr Isopropylbenzene (a	ne ne ene rene	5.70E-04 8.80E-05 8.80E-05 8.80E-05 8.80E-06 8.80E-04 4.60E-03 8.80E-05	5.00E-03 4.00E-01		2.84E-11 5.82E-05 7.10E-09 1.18E-08 1.43E-08 1.60E-09 6.37E-09 3.55E-09 2.94E-11 1.09E-08 1.75E-04 8.43E-08 8.27E-07	EAC Noncarc (mg/m3) 1.99E-12 4.07E-06 4.97E-10 8.29E-10 9.98E-10 1.12E-09 4.46E-10 2.49E-10 2.05E-12 7.64E-10 1.22E-05 5.90E-09 5.79E-08 1.90E-09	Cancer Risk 4.05E-12 1.04E-12 1.25E-11 1.41E-12 5.61E-14 3.13E-12 1.35E-13	Hazard Quotlent 8.15E-04 1.48E-08	
Chemical 4,4-DDD Aluminum Arocior-1254 Benzo(a)anthracene Benzo(b)fluoranthee Benzo(k)fluoranthee Dibenz(a,h)anthrace Dibeldrin Indeno(1,2,3-cd)pyr Isopropylbenzene (a	ne ne ene rene	5.70E-04 8.80E-05 8.80E-05 8.80E-05 8.80E-06 8.80E-04 4.60E-03 8.80E-05	5.00E-03 4.00E-01		2.84E-11 5.82E-05 7.10E-09 1.18E-08 1.43E-08 1.60E-09 3.55E-09 3.55E-09 2.94E-11 1.09E-08 1.75E-04 8.43E-08 8.27E-07 2.72E-08	EAC Noncarc (mg/m3) 1.99E-12 4.07E-06 4.97E-10 8.29E-10 9.98E-10 1.12E-09 4.46E-10 2.49E-10 2.05E-12 7.64E-10 1.22E-05 5.90E-09 5.79E-08 1.90E-09	Cancer Risk 4.05E-12 1.04E-12 1.25E-11 1.41E-12 5.61E-14 3.13E-12 1.35E-13 9.60E-13	Hazard Quotient 8.15E-04 1.48E-08 6.34E-07	

TABLE D-6 RISK/HAZARD CALCULATIONS FOR SOIL SOUTH OF MARLIN AVERAGE -- INDUSTRIAL WORKER

	Intake*CSF		HQ =	Intake / RfD					
	or EAC * IUR			or EAC / RfC					
Parameter	Definition						Default		
rarameter Intake	Intake of ch	emical /mo	/ko-davi	-			see intake		
EAC	Effective Air			1^3)			see intake		
CSF	Cancer slop						see chemprop		
IUR	Inhalation u			•			see chemprop		
RfD	Reference d						see chemprop		
RfC	Inhalation re			n (ma/m^3)			see chemprop		
INGESTION									
		Slope	RfD		Intake	Intake	Cancer	Hazard	
Chemical		Factor			Carc	Noncarc	Risk	Quotient	
4,4-DDD		2.40E-01	-		1.34E-09	3.75E-09	3.21E-10		
Aluminum		-	1.00E+00		1.13E-03	3.16E-03		3.16E-03	
Aroclor-1254			2.00E-05		3,58E-08	1.00E-07	7.16E-08	5.01E-03	
Benzo(a)anthracen		7.30E-01	_		4.68E-08	1.31E-07	3.42E-08		
Benzo(a)pyrene		7.30E+00	_		6.06E-08	1.70E-07	4.43E-07		
Benzo(b)fluoranthe	ne	7.30E-01	-		8.14E-08	2.28E-07	5,94E-08		
Benzo(k)fluoranther	ne	7.30E-02	_		2.74E-08	7.68E-08	2.00E-09		
Dibenz(a,h)anthrac	ene	7.30E+00	_		1.97E-08	5.53E-08	1.44E-07		
Dieldrin		1.60E+01	5.00E-05		1.57E-10	4.41E-10	2,52E-09	8.81E-06	
Indeno(1,2,3-cd)pyr		7.30E-01	_		6,43E-08	1.80E-07	4,69E-08		
Iron			7.00E-01		2.49E-03	6,98E-03		9.98E-03	
Isopropylbenzene (cumene)	_	1.00E-01		1.45E-07	4.07E-07		4.07E-06	
Lead		_	-		9.35E-06	2.62E-05			
Napthalene		-	2.00E-02		5.64E-08	1.58E-07		7.90E-06	,
				PAT	HWAY TOTA	<u>.L =</u>	8.04E-07	1.82E-02	<u> </u>
DERMAL CONTAC	T								
		Cia	Den		Intel·-	late!	Cancer	Llorand	
Chemical		Slope Factor	RfD		Intake Carc	Intake Noncarc	Cancer Risk	Hazard Quotient	
							•		
4,4-DDD		2.40E-01	4 007 : 55		2.41E-10	6.75E-10	5.79E-11	4.075.05	
Aluminum			1.00E+00		1.56E-05	4.37E-05		4.37E-05	
Aroclor-1254			2,00E-05		6,95E-09	1.95E-08	1.39E-08	9.73E-04	
Benzo(a)anthracen		7.30E-01	-		8,44E-09	2,36E-08	6.16E-09		
Benzo(a)pyrene		7.30E+00	-		1.09E-08	3.06E-08	7.97E-08		
Benzo(b)fluoranthe		7.30E-01	_		1.47E-08	4.11E-08	1.07E-08		
Benzo(k)fluoranther		7.30E-02	-		4.94E-09	1.38E-08	3.61E-10		
Dibenz(a,h)anthrac		7.30E+00	-		3,56E-09	9.96E-09	2,60E-08		
Dieldrin		1.60E+01	5,00E-05		2.84E-11	7.94E-11	4,54E-10	1.59E-06	
Indeno(1,2,3-cd)pyr	епе	7.30E-01	-		1.16E-08	3,24E-08	8.46E-09		
Iron		_ `	7.00E-01		3.46E-05	9.68E-05		1.38E-04	
Isopropylbenzene (cumene)	_	1.00E-01		2,62E-08	7.33E-08		7.33E-07	
Lead	,	_	_		1.30E-07	3,63E-07			
Napthalene			2.00E-02		1.02E-08	2.85E-08		1.42E-06	
									_
				PAT	HWAY TOTA	L=	1.46E-07_	1.16E-03	<u> </u>
INHALATION									
		IUR	RfC		EAC	EAC	Cancer	Hazard	
Chemical		,_,,				Noncarc (mg/m3)	Risk	Quotient	
4,4-DDD	-	_	-		1.93E-10	5.41E-13			
Aluminum	-	-	5.00E-03		1,31E-03	3.65E-06		7.31E-04	
Aroclor-1254		5.70E-04	_		3.35E-08	9.38E-11	1.91E-11		•
Benzo(a)anthracen	e	8,80E-05	-		8,44E-08	2.36E-10	7.43E-12		
Benzo(a)pyrene		8.80E-04	-		1.12E-07	3.13E-10	9.84E-11		
Benzo(b)fluoranthe	ne	8.80E-05	_		1.42E-07	3.99E-10	1.25E-11		
Benzo(k)fluoranther		8.80E-06	_		5.87E-08	1.64E-10	5.17E-13		
		8.80E-04			3.79E-08	1.06E-10	3.34E-11		
Dibenz(a,h)anthrac		4,60E-03	_		2,44E-10	6.83E-13	1.12E-12		
	rene	8.80E-05	_		1.15E-07	3.22E-10	1.01E-11		
Dieldrin		-	_		3.98E-03	1.12E-05	1.016-11		
Dieldrin Indeno(1,2,3-cd)pyr		_	4.00E-01		2.03E-07	5.69E-10		1.42E-09	
Dibenz(a,h)anthraco Dieldrin Indeno(1,2,3-cd)pyr Iron Isopropylbenzene (cumene)	_							
Dieldrin Indeno(1,2,3-cd)pyr	cumene)	_			1.70E-05	4.77E-08			
Dieldrin Indeno(1,2,3-cd)pyr Iron Isopropylbenzene (cumene)	- - -	3.00E-03		1.70E-05 7.90E-08	4.77E-08 2.21E-10		7.37E-08	
Dieldrin indeno(1,2,3-cd)pyr Iron Isopropylbenzene (Lead	cumene)	- - -		PAT		2.21E-10	1.83E-10	7.37E-08 7.31E-04	<u> </u>

TABLE D-7 RISK/HAZARD CALCULATIONS FOR SOIL SOUTH OF MARLIN RME -- INDUSTRIAL WORKER

Cancer Risk =	Intake*CSF	:	HQ =	Intake / RfD					
	or EAC * IUR			or EAC / RfC					
Parameter	Definition						Default		
	Intake of ch	emical (mo	/kg-day)				see intake		
				1/3/			see intake		
	Effective Ai								
	Cancer slop			1			see chemprop		
	Inhalation u						see chemprop		
	Reference						see chemprop		
RfC	Inhalation re	eference co	ncentration	n (mg/m^3)			see chemprop		
INGESTION		-							
Chemical		Slope Factor	RfD		Intake Carc	Intake Noncarc	Cancer Risk	Hazard Quotient	
4,4-DDD		2.40E-01	_		8.70E-09	2.44E-08	2.09E-09		
Aluminum		_	1.00E+00		1.21E-03	3.38E-03		3.38E-03	
Aroclor-1254		2,00E+00	2.00E-05		1.29E-07	3.62E-07	2,59E-07	1.81E-02	
Benzo(a)anthracen	•	7.30E-01			1.50E-07	4,20E-07	1.10E-07		
	•		_						
Benzo(a)pyrene		7.30E+00	-		1.76E-07	4.93E-07	1.29E-06		
Benzo(b)fluoranther		7.30E-01	-		2.19E-07	6.14E-07	1.60E-07		
Benzo(k)fluoranther	ne	7.30E-02	-		6.60E-08	1.85E-07	4.82E-09		
Dibenz(a,h)anthrace		7.30E+00	_		4.12E-08	1,15E-07	3.01E-07		
Dieldrin		1,60E+01	5.00F-05		3.67E-10	1.03E-09	5.87E-09	2.05E-05	
	ono		J.JUL-03			3.72E-07		2,352~00	
ndeno(1,2,3-cd)pyr	ene	7.30E-01			1.33E-07		9.71E-08		
ron			7.00E-01		3.05E-03	8.54E-03		1.22E-02	
sopropylbenzene (d	cumene)	_	1.00E-01		1.51E-06	4.22E-06		4.22E-05	
Lead	•	_	_		1.82E-05	5,09E-05			
Napthalene		_	2.00E-02		4.85E-07	1.36E-06		6.79E-05	
				PAT	HWAY TOTA	L, =	2.22E-06	3.38E-02	1
DERMAL CONTAC									
DERMAL CONTAC	1								
		Slope	RfD		Intake	Intake	Cancer	Hazard	
Chemical		Factor			Carc	Noncarc	Risk	Quotient	
4,4-DDD		2.40E-01	_		1.49E-08	4.18E-08	3,58E-09		
		4.70L-U	1 005 - 00				J.JUL-13	A A7E 04	
Aluminum			1.00E+00		1.59E-04	4.47E-04		4.47E-04	
Aroclor-1254		2,00E+00	2.00E-05		2.39E-07	6,69E-07	4.78E-07	3.35E-02	
Benzo(a)anthracent	Э	7.30E-01	-		2.58E-07	7.21E-07	1.88E-07		
Benzo(a)pyrene		7.30E+00			3.02E-07	8.46E-07	2.21E-06		
Benzo(b)fluoranther	ne	7.30E-01	-		3,77E-07	1.05E-06	2,75E-07		
			-						
Benzo(k)fluoranther		7.30E-02	_		1.13E-07	3.17E-07	8.27E-09		
Dibenz(a,h)anthrace	ene	7.30E+00	_		7.08E-08	1.98E-07	5.17E-07		
Dieldrin		1.60E+01	5.00E-05		6,30E-10	1.76E-09	1.01E-08	3.53E-05	
ndeno(1,2,3-cd)pyr	еле	7.30E-01			2.28E-07	6.39E-07	1.67E-07		
	OI IC	1.30E-01	7.005.01				1.07 5-07	4 645 06	
ron			7.00E-01		4.03E-04	1.13E-03		1.61E-03	
sopropylbenzene (d	cumene)	-	1.00E-01		2,58E-06	7.24E-06		7.24E-05	
ead			_		2.40E-06	6.72E-06			
Napthalene		_	2.00E-02		8.32E-07	2.33E-06		1.16E-04	
				PĀT	HWAY TOTA	L=	3.85E-06	3.57E-02	L
NULAL ATION									
INHALATION									
Chemical		IUR	RfC	,	EAC Carc (ug/m3)	EAC Noncarc (mg/m3)	Cancer Risk	Hazard Quotient	
						· -	, ,,,,,,	2001011	-
			-		7.09E-10	1.99E-12			
			5.00E-03		1.45E-03	4.07E-06		8.15E-04	
1,4-DDD					1.78E-07	4,97E-10	1.01E-10		
4,4-DDD Numinum		5.70F-04							
1,4-DDD Aiuminum Aroclor-1254	•	5.70E-04							
i,4-DDD Numinum Aroclor-1254 Benzo(a)anthracene	9	8.80E-05	-		2.96E-07	8.29E-10	2.61E-11		
4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene		8.80E-05 8.80E-04	- - -		2.96E-07 3.56E-07	8.29E-10 9.98E-10	2.61E-11 3.14E-10		
4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene		8.80E-05	- - -		2.96E-07	8.29E-10	2.61E-11		
4,4-DDD Atuminum Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranther	ne	8.80E-05 8.80E-04 8.80E-05	- - -		2.96E-07 3.56E-07 4.01E-07	8.29E-10 9.98E-10 1.12E-09	2.61E-11 3.14E-10 3.53E-11		
4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracend Benzo(a)pyrene Benzo(b)fluoranther Benzo(k)fluoranther	ne ne	8.80E-05 8.80E-04 8.80E-05 8.80E-06	- - - -		2.96E-07 3.56E-07 4.01E-07 1.59E-07	8.29E-10 9.98E-10 1.12E-09 4.46E-10	2.61E-11 3.14E-10 3.53E-11 1.40E-12		
4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracend Benzo(a)pyrene Benzo(b)fluoranther Benzo(k)fluoranther Dibenz(a,h)anthrace	ne ne	8.80E-05 8.80E-04 8.80E-05 8.80E-06 8.80E-04	- - - -		2.96E-07 3.56E-07 4.01E-07 1.59E-07 8.88E-08	8.29E-10 9.98E-10 1.12E-09 4.46E-10 2.49E-10	2.61E-11 3.14E-10 3.53E-11 1.40E-12 7.81E-11		
4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(b)fluoranther Benzo(k)fluoranther Dibenz(a,h)anthrace	ne ne ene	8.80E-05 8.80E-04 8.80E-05 8.80E-06 8.80E-04 4.60E-03	- - - - -		2.96E-07 3.56E-07 4.01E-07 1.59E-07 8.88E-08 7.34E-10	8.29E-10 9.98E-10 1.12E-09 4.46E-10 2.49E-10 2.05E-12	2.61E-11 3.14E-10 3.53E-11 1.40E-12 7.81E-11 3.38E-12		
4,4-DDD Atuminum Aroclor-1254 Benzo(a)anthracene Benzo(b)fluoranther Benzo(k)fluoranther Dibenz(a,h)anthrace	ne ne ene	8.80E-05 8.80E-04 8.80E-05 8.80E-06 8.80E-04			2.96E-07 3.56E-07 4.01E-07 1.59E-07 8.88E-08	8.29E-10 9.98E-10 1.12E-09 4.46E-10 2.49E-10	2.61E-11 3.14E-10 3.53E-11 1.40E-12 7.81E-11		
4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(b)fluoranther Benzo(k)fluoranther Dibenz(a,h)anthracene Dieldrin	ne ne ene	8.80E-05 8.80E-04 8.80E-05 8.80E-06 8.80E-04 4.60E-03			2.96E-07 3.56E-07 4.01E-07 1.59E-07 8.88E-08 7.34E-10 2.73E-07	8.29E-10 9.98E-10 1.12E-09 4.46E-10 2.49E-10 2.05E-12 7.64E-10	2.61E-11 3.14E-10 3.53E-11 1.40E-12 7.81E-11 3.38E-12		
4,4-DDD Atuminum Arcolor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranther Benzo(k)fluoranther Dibenz(a,h)anthrace Dieldrin ndeno(1,2,3-cd)pyr	ne ne ene ene	8.80E-05 8.80E-04 8.80E-06 8.80E-04 4.60E-03 8.80E-05	 - -		2.96E-07 3.56E-07 4.01E-07 1.59E-07 8.88E-08 7.34E-10 2.73E-07 4.37E-03	8.29E-10 9.98E-10 1.12E-09 4.46E-10 2.49E-10 2.05E-12 7.64E-10 1.22E-05	2.61E-11 3.14E-10 3.53E-11 1.40E-12 7.81E-11 3.38E-12	1 485-09	
4,4-DDD Atuminum Arcolor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(k)fluoranther Benzo(k)fluoranther Dibenz(a,h)anthracene Dieldrin ndeno(1,2,3-cd)pyr ron sopropylbenzene («	ne ne ene ene	8.80E-05 8.80E-04 8.80E-05 8.80E-06 8.80E-04 4.60E-03 8.80E-05			2.96E-07 3.56E-07 4.01E-07 1.59E-07 8.88E-08 7.34E-10 2.73E-07 4.37E-03 2.11E-06	8.29E-10 9.98E-10 1.12E-09 4.46E-10 2.49E-10 2.05E-12 7.64E-10 1.22E-05 5.90E-09	2.61E-11 3.14E-10 3.53E-11 1.40E-12 7.81E-11 3.38E-12	1.48E-08	
4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(b)fluoranther Benzo(k)fluoranther Dibenz(a,h)anthrace Dieldrin Indeno(1,2,3-cd)pyr Isopropylbenzene (d	ne ne ene ene	8.80E-05 8.80E-04 8.80E-06 8.80E-04 4.60E-03 8.80E-05	 - - 4.00E-01		2.96E-07 3.56E-07 4.01E-07 1.59E-07 8.88E-08 7.34E-10 2.73E-07 4.37E-03 2.11E-06 2.07E-05	8.29E-10 9.98E-10 1.12E-09 4.46E-10 2.49E-10 2.05E-12 7.64E-10 1.22E-05 5.90E-09 5.79E-08	2.61E-11 3.14E-10 3.53E-11 1.40E-12 7.81E-11 3.38E-12		
4,4-DDD Atuminum Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(k)fluoranther Benzo(k)fluoranther Dibenz(a,h)anthrace Dieldrin indeno(1,2,3-cd)pyr ron sopropylbenzene («	ne ne ene ene	8.80E-05 8.80E-04 8.80E-05 8.80E-06 8.80E-04 4.60E-03 8.80E-05	 - -		2.96E-07 3.56E-07 4.01E-07 1.59E-07 8.88E-08 7.34E-10 2.73E-07 4.37E-03 2.11E-06 2.07E-05 6.79E-07	8.29E-10 9.98E-10 1.12E-09 4.46E-10 2.49E-10 2.05E-12 7.64E-10 1.22E-05 5.90E-09 5.79E-08 1.90E-09	2.61E-11 3.14E-10 3.53E-11 1.40E-12 7.81E-11 3.38E-12 2.40E-11	6.34E-07	
4,4-DDD Aluminum Aroclor-1254 Benzo(a)anthracene Benzo(b)fluoranther Benzo(k)fluoranther Dibenz(a,h)anthrace Dieldrin ndeno(1,2,3-cd)pyr osopropylbenzene (a	ne ne ene ene	8.80E-05 8.80E-04 8.80E-05 8.80E-06 8.80E-04 4.60E-03 8.80E-05	 - - 4.00E-01	PAT	2.96E-07 3.56E-07 4.01E-07 1.59E-07 8.88E-08 7.34E-10 2.73E-07 4.37E-03 2.11E-06 2.07E-05	8.29E-10 9.98E-10 1.12E-09 4.46E-10 2.49E-10 2.05E-12 7.64E-10 1.22E-05 5.90E-09 5.79E-08 1.90E-09	2.61E-11 3.14E-10 3.53E-11 1.40E-12 7.81E-11 3.38E-12		<u> </u>

TABLE D-8
CHEMICAL SPECIFIC TOXICITY VALUES*

Compound	EPA weight- of-evidence classification	CAS Number	Chronic RfD mg/kg-day	Notes:	Inhalaiton RfC mg/m3	Notes:	Oral Slope Factor 1/mg/kg-day	Notes:	Inhalation Unit Risk 1/ug/m3	Dermal bsorption (unitless)	Notes:
1.2-Dichloroethane	B2	107-06-2	2.00E-02		2.40E+00		9.10E-02		2.60E-05	1.30E-01	
Aluminum	Not available	7429-90-5	1.00E-01		5.00E-03					1.00E-02	
Aroclor-1254	B2	1336-36-3	2.00E-05				2.00E+00		5.70E-04	1.30E-01	
Benzo(a)anthracene	B2	56-55-3					7.30E-01		8.80E-05	1.30E-01	
Benzo(a)pyrene	B2	50-32-8					7.30E+00		8.80E-04	1.30E-01	
Benzo(b)fluoranthene	B2	205-99-2					7.30E-01		8.80E-05	1.30E-01	
Dibenz(a,h)anthracene	B2	53-70-3			_		7.30E+00		8.80E-04	1.30E-01	
Indeno(1,2,3-cd)pyrene	B2	193-39-5					7.30E-01		8.80E-05	1.30E-01	
Iron	Not available	7439-89-6	7.00E-01	NCEA, 2006						1.00E-02	
Tetrachloroethene	B2	127-18-4	1.00E-02	·	2.70E-01		5.20E-02		5.80E-07	1.30E-01	

Notes:

^{*} Unless otherwise noted, the values were obtained from EPA's on-line database, IRIS.

TABLE D-9 RISK/HAZARD CALCULATIONS FOR SOIL NORTH OF MARLIN AVERAGE -- YOUTH TRESPASSER

Cancer Risk = I	Intake*CSF	HQ =	Intake / RfD					-
	<i>or</i> EAC * IUR		or EAC / RfC					
	EAC TOR		EAC / RIG					
	Definition				· ·	Default		
	Intake of chemical (m					see intake		
	Effective Air Concentr					see intake		
ll .	Cancer slope factor (r	• • • • • • • • • • • • • • • • • • • •	1			see chemprop		
	Inhalation unit risk (ug					see chemprop		
	Reference dose (mg/l		- (/ A2)			see chemprop		
IKIC I	Inhalation reference c	oncentration	n (mg/m·s)			see chemprop		
INGESTION	.,				-			
	Slope	RfD		Intake	Intake	Cancer	Hazard	
Chemical	Factor			Carc	Noncarc	Risk	Quotient	
1,2-Dichloroethane	9.10E-02	2.00E-02		1.56E-10	4.36E-10	1.42E-11	2.18E-08	
Aluminum		1.00E-01		1.76E-04	4.92E-04		4.92E-03	
Aroclor-1254	2.00E+00	2.00E-05		8.22E-11	2.30E-10	1.64E-10	1.15E-05	
Benzo(a)anthracene	7.30E-01	,		9.98E-10	2.79E-09	7.29E-10		
Benzo(a)pyrene	7.30E+00			1.35E-09	3.79E-09	9.88E-09		
Benzo(b)fluoranthen	ne 7.30E-01			1.76E-09	4.93E-09	1.29E-09		
Dibenz(á,h)anthrace				5.64E-10	1.58E-09	4.11E-09		
Indeno(1,2,3-cd)pyre				1.95E-09	5.47E-09	1.43E-09		
Iron		7.00E-01		2.57E-04	7.20E-04		1.03E-03	
Tetrachloroethene	5.20E-02	1.00E-02		1.86E-10	5.22E-10	9.69E-12	5.22E-08	
			PATI	HWAY TOTA	L =	1.76E-08	5.96E-03	
DERMAL CONTACT	Γ							
-	Slope	RfD		Intake	Intake	Cancer	Hazard	
Chemical	Factor			Carc	Noncarc	Risk	Quotient	
1,2-Dichloroethane	9.10=.02	2.00E-02		7.08E-11	1.98E-10	6.44E-12	9.91E-09	
Aluminum	0.102-02	1.00E-01		6.15E-06	1.72E-05	O.44E-12	1.72E-04	
Aroclor-1254	2 005+00	2.00E-05		3.74E-11	1.05E-10	7.48E-11	5.24E-06	
Benzo(a)anthracene		2.000-03		4.54E-10	1.27E-09	3.32E-10	3.24L-00	
Benzo(a)pyrene	7.30E+00			6.16E-10	1.72E-09	4.49E-09		
Benzo(b)fluoranthen				8.01E-10	2.24E-09	5.85E-10		
Dibenz(a,h)anthrace				2.56E-10	7.18E-10	1.87E-09		
Indeno(1,2,3-cd)pyre				8.88E-10	2.49E-09	6.48E-10		
Iron	7.30E-01	7.00E-01		9.01E-06	2.52E-05	0.40E-10	3.60E-05	
Tetrachloroethene		1.00E-01		8.48E-11	2.37E-10	4.41E-12	2.37E-08	
- Cuacinoroettierie	0.200-02	1.006-02				7.716-16		
			PATI	HWAY TOTA	L =	8.02E-09	2.13E-04	
INHALATION		<u></u> .						
	_							
Chemical	IUR	RfC	,	EAC	EAC	Cancer	Hazard Ouotient	
Chemical				carc (ug/m3)	Noncarc (mg/m3)	Risk	Quotient	
1,2-Dichloroethane	2.60E-05	2.40E+00		4.40E-06	1.23E-08			
Aluminum		5.00E-03		6.27E-05	1.75E-07		3.51E-05	
Aroclor-1254	5.70E-04			2.17E-11	6.08E-14	1.24E-14		
Benzo(a)anthracene	8.80E-05			4.20E-10	1.18E-12	3.69E-14		
Benzo(a)pyrene	8.80E-04			6.69E-10	1.87E-12	5.89E-13		
Benzo(b)fluoranthen	ne 8.80E-05			8.57E-10	2.40E-12	7.54E-14		
Dibenz(a,h)anthrace				2.77E-10	7.74E-13	2.43E-13		
Indeno(1,2,3-cd)pyre	ene 8.80E-05			8.86E-10	2.48E-12	7.80E-14		
Iron				1.14E-04	3.20E-07			
Tetrachloroethene	5.80E-07	2.70E-01		4.92E-05	1.38E-07	2.86E-11	5.10E-07	
			PATI	ATOT YAWH	L =	2.96E-11	3.56E-05	
							6 245 02	
					TOTAL	2.57E-08	6.21E-03	

TABLE D-10 RISK/HAZARD CALCULATIONS FOR SOIL NORTH OF MARLIN RME -- YOUTH TRESPASSER (age 6 to 18)

Cancer Risk =	Intake*CSF	HQ =	Intake / RfD					
	or		or					
	EAC * IUR		EAC / RfC					
Parameter	Definition					Default		
Intake	Intake of chemical	mg/kg-day)				see intake		
EAC	Effective Air Conce	ntration (mg/	m^3)			see intake		
CSF	Cancer slope factor	,	-1			see chemprop		
IUR	Inhalation unit risk					see chemprop		•
RfD	Reference dose (m		((4.0)			see chemprop		
RfC	Inhalation reference	e concentration	on (mg/m^3)			see chemprop		
INGESTION								
	Slope			Intake	Intake	Cancer	Hazard	
Chemical	Facto	r		Carc	Noncarc	Risk	Quotient	
1,2-Dichloroethane	9.10E-	02 2.00E-02	2	6.05E-09	1.69E-08	5.50E-10	8.47E-07	
Aluminum		1.00E-01		7.69E-04	2.15E-03		2.15E-02	
Aroclor-1254	2.00E+	00 2.00E-05		9.86E-10	2.76E-09	1.97E-09	1.38E-04	
Benzo(a)anthracen	e 7.30E-0)1		2.72E-08	7.63E-08	1.99E-08		
Benzo(a)pyrene	7.30E+	00		3.25E-08	9.11E-08	2.37E-07		
Benzo(b)fluoranthe	ne 7.30E-0	01		3.81E-08	1.07E-07	2.78E-08		
Dibenz(a,h)anthrac				1.04E-08	2.91E-08	7.59E-08		
Indeno(1,2,3-cd)pyi	rene 7.30E-			3.39E-08	9.48E-08	2.47E-08		
Iron		7.00E-01		1.28E-03	3.58E-03		5.11E-03	
Tetrachloroethene	5.20E-	02 1.00E-02	2	7.57E-09	2.12E-08	3.94E-10	2.12E-06	
			PAT	HWAY TOTA	L =	3.89E-07	2.68E-02	<u> </u>
DEDIM CONTAC								
DERMAL CONTAC	1							
	Slope	RfD		Intake	Intake	Cancer	Hazard	
Chemical	Facto	r		Carc	Noncarc	Risk	Quotient	
1,2-Dichloroethane	9.10E-	02 2,00E-02	,	2.75E-09	7,70E-09	2.50E-10	3.85E-07	
Aluminum	9,100-	1.00E-02		2.75E-09 2.69E-05	7.53E-05	2.50L-10	7.53E-04	
Aroclor-1254	2 NNE+	00 2.00E-05		4.49E-10	1.26E-09	8.98E-10	6.28E-05	
Benzo(a)anthracen			•	1.24E-08	3.47E-08	9.05E-09	0.202 00	
Benzo(a)pyrene	7.30E+			1.48E-08	4.14E-08	1.08E-07		
Benzo(b)fluoranthe				1.73E-08	4.85E-08	1,27E-08		
Dibenz(a,h)anthrac				4.73E-09	1,32E-08	3.45E-08		
Indeno(1,2,3-cd)pyi		01		1.54E-08	4.32E-08	1.13E-08		
Iron		7.00E-01	1	4.47E-05	1.25E-04		1.79E-04	
Tetrachloroethene	5.20E-0	02 1.00E-02	2	3.45E-09	9.65E-09	1.79E-10	9.65 E- 07	
			PAT	HWAY TOTA	L =	1.77E-07	9.96E-04	1
INHALATION								
	IUR	RfC		EAC	EAC	Cancer	Hazard	
Chemical			(Carc (ug/m3)	Noncarc (mg/m3)	Risk	Quotient	
1,2-Dichloroethane	2.60F-	5 2.40E+0	o	1.71E-04	4.79E-07	4.45E-09	2.00E-07	
Aluminum	2.002-	5.00E-03		2.86E-04	8.01E-07		1.60E-04	
Aroclor-1254	5.70E-0			1.81E-10	5.06E-13	1.03E-13	· ·	
Benzo(a)anthracen	e 8.80E-0	05		1.69E-08	4.73E-11	1.49E-12		
Benzo(a)pyrene	8.80E-			2.09E-08	5.84E-11	1.84E-11		
Benzo(b)fluoranthe	ne 8.80E-0)5		8.27E-09	2.31E-11	7.27E-13		
Dibenz(a,h)anthrac				6.67E-09	1.87E-11	5.87E-12		
Indeno(1,2,3-cd)pyr	ene 8.80E-0	05		2.28E-08	6.37E-11	2.00E-12		
Iron			_	9.66E-04	2.70E-06			
Tetrachloroethene	5.80E-	07 2.70E-01	1	2.00E-03	5.60E-06	1.16E-09	2.07E-05	
			PAT	HWAY TOTA	L =	5.64E-09	1.81E-04	
					TOTAL	5.71E-07	2.80E-02	

TABLE D-11 RISK/HAZARD CALCULATIONS FOR SOIL NORTH OF MARLIN AVERAGE -- CONSTRUCTION WORKER

Cancer Risk =	Intake*CSF	HQ =	Intake / RfD			· · · · · · · · · · · · · · · · · · ·		
	or EAC * IUR		<i>or</i> EAC / RfC					
·	LAG ION		LAO / NIO					
Parameter	Definition					Default		
Intake	Intake of chemical (40\			see intake		
EAC	Effective Air Conce					see intake		
CSF	Cancer slope factor	, ,	-1			see chemprop		
IUR	Inhalation unit risk (see chemprop		
RfD	Reference dose (m					see chemprop		
RfC	Inhalation reference	concentration	on (mg/m^3)			see chemprop		
INGESTION			·	 ·				
	Slope	RfD		Intake	Intake	Cancer	Hazard	
Chemical	Facto			Carc	Noncarc	Risk	Quotient	
1,2-Dichloroethane	9.10E-0	02 2.00E-02	<u>!</u>	8,80E-11	6.16E-09	8.01E-12	3.08E-07	
Aluminum		1,00E-01		9.94E-05	6,96E-03		6.96E-02	
Aroclor-1254	2.00E+	00 2.00E-05		4.65E-11	3,25E-09	9.30E-11	1.63E-04	
Benzo(a)anthracen				5.65E-10	3.95E-08	4.12E-10		
Benzo(a)pyrene	7.30E+			7.66E-10	5.36E-08	5.59E-09		
				7.00E-10 9,96E-10	6.97E-08	7.27E-10		
Benzo(b)fluoranthe								
Dibenz(a,h)anthrac				3.19E-10	2.23E-08	2.33E-09		
Indeno(1,2,3-cd)py				1.10E-09	7.73E-08	8.06E-10	4 405 55	
Iron		7.00E-01		1.46E-04	1.02E-02	- 45- 4	1.46E-02	
Tetrachloroethene	5.20E-0	02 1.00E-02	2	1.05E-10	7.38E-09	5.48E-12	7.38E-07	
			PATI	HWAY TOTA	L =	9.97E-09	8.43E-02	
DEDILL CONTRO								
DERMAL CONTAC	L							
)	Slope	RfD		Intake	Intake	Cancer	Hazard	
Chemical	Facto			Carc	Noncarc	Risk	Quotient	
1,2-Dichloroethane	0.105 (02 2.00E-02)	3.20E-11	2.24E-09	2.92E-12	1.12E-07	
Aluminum		1.00E-02		2.78E-06	1.95E-04	2.524-12	1.12E-07 1.95E-03	
	0.005					0.005.44		
Aroclor-1254		00 2.00E-08)	1.69E-11	1.18E-09	3.38E-11	5.92E-05	
Benzo(a)anthracen				2.06E-10	1.44E-08	1.50E-10		
Benzo(a)pyrene	7.30E+			2.79E-10	1.95E-08	2.03E-09		
Benzo(b)fluoranthe	ne 7.30E-0	01		3.63E-10	2.54E-08	2.65E-10		
Dibenz(a,h)anthrac		00		1.16E-10	8.12E-09	8.47E-10		
Indeno(1,2,3-cd)py	rene 7.30E-0	01		4.02E-10	2.81E-08	2.93E-10		
Iron		7.00E-01		4.08E-06	2.85E-04		4.08E-04	
Tetrachloroethene	5.20E-0	02 1.00E-02	2	3.84E-11	2.69E-09	2.00E-12	2.69E-07	
			PATI	HWAY TOTA	L =	3.63E-09	2.42E-03	
INHALATION								
	IUR	RfC		EAC	EAC	Сапсег	Hazard	
Chemical				Carc (ug/m3)	Noncarc (mg/m3)	Risk	Quotient	
1,2-Dichloroethane	2.60E-0	5 2.40E+00)	2.64E-06	1.85E-07	6.87E-11	7.71E-08	
Aluminum		5.00E-03		3.76E-05	2.63E-06		5.26E-04	
Aroclor-1254	5.70E-0			1.30E-11	9.12E-13	7.43E-15		
Benzo(a)anthracen				2.52E-10	1.76E-11	2.22E-14		
Benzo(a)pyrene	8.80E-0			4.02E-10	2.81E-11	3.53E-13		
Benzo(b)fluoranthe				5.14E-10	3.60E-11	4.53E-14		
Dibenz(a,h)anthrac				1.66E-10	1.16E-11	1.46E-13		
Indeno(1,2,3-cd)py	ene 8.80E-0)5		5.32E-10	3.72E-11	4.68E-14		
Iron	F 065 1	 0 705 04	1	6.86E-05	4.80E-06	4 745 44	7.665.00	
Tetrachioroethene	5.80E-(07 2.70E-01	l	2.95E-05	2.07E-06	1.71E-11	7.66E-06	
			PATI	HWAY TOTA	L=	8.65E-11	5.34E-04	
					TOTAL	1.37E-08	8.72E-02	
						_		

TABLE D-12 RISK/HAZARD CALCULATIONS FOR SOIL NORTH OF MARLIN RME -- CONSTRUCTION WORKER

Cancer Risk =	Intake*CSF	HQ =	Intake / RfD				
1	or		or				
	EAC * IUR		EAC / RfC				
Parameter	Definition				Default		
Intake	Intake of chemical (m	n/kn-day)			see Intake		
EAC	Effective Air Concent		1^3)		see intake		
CSF	Cancer slope factor (r				see chemprop		
IUR	Inhalation unit risk (ug		•		see chemprop		
RfD	Reference dose (mg/l				see chemprop		
RfC	Inhalation reference of		n (mg/m^3)		see chemprop		
INGESTION							
	Slope	RfD	Intake	Intake	Cancer	Hazard	
Chemical	Factor		Carc	Noncarc	Risk	Quotient	
1,2-Dichloroethane	9.10E-02	2.00E-02	4.75E-09	3.33E-07	4.32E-10	1.66E-05	
Aluminum		1.00E-01	6.04E-04	4.23E-02		4.23E-01	
Aroclor-1254		2.00E-05	7.75E-10	5.42E-08	1.55E-09	2.71E-03	
Benzo(a)anthracen			2.14E-08	1.50E-06	1.56E-08		
Benzo(a)pyrene	7.30E+00		2.56E-08	1.79E-06	1.87E-07		
Benzo(b)fluoranthe			2.99E-08	2.10E-06	2.19E-08		
Dibenz(a,h)anthrac			8.16E-09	5.72E-07	5.96E-08		
Indeno(1,2,3-cd)py			2.66E-08	1.86E-06	1.94E-08		İ
Iron		7.00E-01	1.00E-03	7.03E-02		1.00E-01	
Tetrachloroethene	5.20E-02	1.00E-02	5.95E-09	4.17E-07	3.09E-10	4.17E-05	
			PATHWAY TOTA	λ <u>L</u> =	3.05E-07	5.26E-01	7
DERMAL CONTAC	T						
] -	Slope	RfD	Intake	Intake	Cancer	Hazard	
Chemical	Factor	ND	Carc	Noncarc	Risk	Quotient	
	1 40,01		0010	,,			
1,2-Dichloroethane	9.10F-02	2.00E-02	1.85E-09	1.30E-07	1.69E-10	6.49E-06	
Aluminum		1.00E-01	1.81E-05	1.27E-03		1.27E-02	
Aroclor-1254	2.00E+00	2.00E-05	3.02E-10	2.12E-08	6.04E-10	1.06E-03	
Benzo(a)anthracen			8.35E-09	5.84E-07	6.09E-09		
Benzo(a)pyrene	7.30E+00		9.97E-09	6.98E-07	7.28E-08		
Benzo(b)fluoranthe	ne 7.30E-01		1.17E-08	8.17E-07	8.52E-09		
Dibenz(á,h)anthrac			3.18E-09	2.23E-07	2.32E-08		
Indeno(1,2,3-cd)py			1.04E-08	7.27E-07	7.58E-09		
Iron		7.00E-01	3.01E-05	2.11E-03		3.01E-03	
Tetrachloroethene	5.20E-02	1.00E-02	2.32E-09	1.62E-07	1.21E-10	1.62E-05	
			PATHWAY TOTA	<u> </u>	1.19E-07	1.68E-02	1
					1.19E-0/	1.00E-02	<u> </u>
INHALATION							
		D40	E. 0	E40	Comes	Uone	
Chemical	IUR	RfC	EAC Carc (ug/m3)	EAC Noncarc (mg/m3)	Cancer Risk	Hazard Quotient	
			oaro (ag/illo)	(mg/mo)	111011	<u> </u>	
1,2-Dichloroethane	2.60E-05	2.40E+00	7.13E-05	4.99E-06	1.85E-09	2.08E-06	-
Aluminum		5.00E-03	1.19E-04	8.35E-06		1.67E-03	
Aroclor-1254	5.70E-04		7.53E-11	5.27E-12	4.29E-14		
Benzo(a)anthracen	e 8.80E-05		7.05E-09	4.93E-10	6.20E-13		
Benzo(a)pyrene	8.80E-04		8.69E-09	6.08E-10	7.65E-12		
Benzo(b)fluoranthe			3.44E-09	2.41E-10	3.03E-13		
Dibenz(a,h)anthrac			2.78E-09	1.95E-10	2.45E-12		
Indeno(1,2,3-cd)py	rene 8.80E-05		9.48E-09	6.64E-10	8.34E-13		
Iron	·-		4.02E-04	2.82E-05	4.00= :=	0.40= -:	
Tetrachloroethene	5.80E-07	2.70E-01	8.33E-04	5.83E-05	4.83E-10	2.16E-04	
<u> </u>			PATHWAY TOTA	AL =	2.35E-09	1.89E-03	
				TOTAL	4.085.05	E 48E 04	
				TOTAL	4.27E-07	5.45E-01	

TABLE D-13 RISK/HAZARD CALCULATIONS FOR SOIL NORTH OF MARLIN AVERAGE -- INDUSTRIAL WORKER

Cancer Risk =	Intake*CSF	HQ =	Intake / RfD					
	or EAC * IUR		or EAC / RfC					
	D.F.W.					"		
Parameter	Definition					Default	·	
Intake	Intake of chemical					see intake		
EAC	Effective Air Conce					see intake		
CSF	Cancer slope factor	,,)-1			see chemprop		•
IUR	Inhalation unit risk ((ug/m^3)-1				see chemprop		
RfD	Reference dose (m	g/kg-day)				see chemprop		
RfC	Inhalation reference	concentration	on (mg/m^3)			see chemprop		
INGESTION						<u> </u>		
	Clana	n en		Inteles	Inteles	0	Hamand	
Chemical	Slope Facto			Intake Carc	Intake Noncarc	Cancer Risk	Hazard Quotient	
								·
1,2-Dichloroethane		02 2.00E-02		1.85E-09	5.19E-09	1.69E-10	2.59E-07	
Aluminum		1.00E-01	1	2.09E-03	5,86E-03		5,86E-02	
Aroclor-1254	2.00E+	00 2.00E-0	5	9.78E-10	2.74E-09	1.96E-09	1.37E-04	
Benzo(a)anthracen	e 7.30E-0	01		1.19E-08	3.33E-08	8.67E-09		
Benzo(a)pyrene	7.30E+			1.61E-08	4.51E-08	1.18E-07		
Benzo(b)fluoranthe				2,10E-08	5,87E-08	1.53E-08		
l ' '								
Dibenz(a,h)anthrac				6.71E-09	1.88E-08	4.90E-08		
Indeno(1,2,3-cd)pyi				2.32E-08	6.51E-08	1.70E-08		
Iron		7.00E-0		3.06E-03	8.58E-03		1.23E-02	
Tetrachloroethene	5.20E-0	02 1.00E-02	2	2.22E-09	6.21E-09	1.15E-10	6.21E-07	
			PATI	HWAY TOTA	.L =	2.10E-07	7.10E-02	
DERMAL CONTAC	Т						-	·
	Slope	RfD		Intake	Intake	Cancer	Hazard	
Chemical	Facto	r		Carc	Noncarc	Risk	Quotient	<u>-</u>
1,2-Dichloroethane	9.10F-/	02 2.00E-02	2	3,34E-10	9.34E-10	3,04E-11	4.67E-08	
Aluminum		1.00E-0		2.90E-05	8.12E-05	0,042 11	8.12E-04	
Aroclor-1254		00 2.00E-0				2 525 40		
íf .			•	1.76E-10	4.94E-10	3.53E-10	2.47E-05	
Benzo(a)anthracen				2.14E-09	5.99E-09	1.56E-09		
Benzo(a)pyrene	7.30E+	00		2.90E-09	8.13E-09	2.12E-08		
Benzo(b)fluoranthe	ne 7.30E-0	01		3.78E-09	1.06E-08	2.76E-09		
Dibenz(a,h)anthrac	ene 7.30E+6	00		1.21E-09	3.38E-09	8.83E-09		
Indeno(1,2,3-cd)pyr				4.19E-09	1.17E-08	3.06E-09		
iron		7.00E-01	1	4.25E-05	1.19E-04		1.70E-04	
Tetrachloroethene		02 1.00E-02	-	4.00E-10	1.12E-09	2.08E-11	1.12E-07	
			DATE	<u> </u>	I =	2 705 00	4.04E.02	
			PAII	HWAY TOTA	<u>- </u>	3.78E-08	1.01E-03	
INHALATION							· · · · · · · · · · · · · · · · · · ·	
	IUR	RfC		EAC	EAC	Cancer	Hazard	
Chemical	.511		c		Noncarc (mg/m3)	Risk	Quotient	
1,2-Dichloroethane	2605/	5 2.40E+0		1 845 04	5 14E 07	4 77E 00	2145.07	- -
1 "				1.84E-04	5.14E-07	4.77E-09	2.14E-07	
Aluminum		5.00E-03	5	2.61E-03	7.31E-06		1.46E-03	
Aroclor-1254	5.70E-0			9.05E-10	2.53E-12	5.16E-13		
Benzo(a)anthracen	e 8,80E-0)5		1.75E-08	4.90E-11	1.54E-12		
Benzo(a)pyrene	8.80E-0)4		2.79E-08	7.81E-11	2.45E-11		
Benzo(b)fluoranthe	ne 8.80E-0)5		3.57E-08	1.00E-10	3.14E-12		
Dibenz(á,h)anthrac				1.15E-08	3.23E-11	1.01E-11		
Indeno(1,2,3-cd)pyr				3.69E-08	1.03E-10	3.25E-12		
Iron	J 5,55E-0			4.76E-03	1.33E-05	U.LUL- 12		
Tetrachloroethene	5.80E-(7 2. 70E-0 1	1	2.05E-03	5.74E-06	1.19E-09	2.13E-05	
			DAT.	JIAJA V TOTA		6.00E.00	1.405.00	
1			<u> PATI</u>	ATOT YAWH	<u> </u>	6,00E-09	1,48E-03	
					TOTAL	2.54E-07	7.34E-02	

TABLE D-14 RISK/HAZARD CALCULATIONS FOR SOIL NORTH OF MARLIN RME -- INDUSTRIAL WORKER

Cancer Risk =	Intake*CSF	HQ =	Intake / RfD					
	or EAC * IUR		or EAC / RfC					
Parameter	Definition					Default		
Intake	Intake of chemical (m	n/kg-day)	_			see intake	,	
EAC	Effective Air Concent		-A3)			see intake		
			•					
CSF	Cancer slope factor (r		1			see chemprop		
IUR	Inhalation unit risk (ug					see chemprop		
RfD	Reference dose (mg/l	kg-day)				see chemprop		
RfC	Inhalation reference of	oncentratio	n (mg/m^3)	-		see chemprop		
INGESTION			·					
	Slope	RfD		Intake	Intake	Cancer	Hazard	
Chemical	Factor			Carc	Noncarc	Risk	Quotient	
1,2-Dichloroethane	9.10E-02	2.00E-02		1.80E-08	5.04E-08	1.64E-09	2.52E-06	
Aluminum		1.00E-01		2.29E-03	6.41E-03		6.41E-02	
Aroclor-1254	2.00E+00	2.00E-05		2.94E-09	8,22E-09	5,87E-09	4.11E-04	
Benzo(a)anthracer				8.11E-08	2.27E-07	5.92E-08		
Benzo(a)pyrene	7.30E+00			9.68E-08	2.71E-07	7.07E-07		
Benzo(b)fluoranthe				1.13E-07	3.18E-07	8.28E-08		
Dibenz(a,h)anthrac				3.09E-08	8.66E-08	2.26E-07		
Indeno(1,2,3-cd)py	rene 7.30E-01			1.01E-07	2.82E-07	7.36E-08		
iron		7.00E-01		3.80E-03	1.06E-02		1.52E-02	
Tetrachloroethene	5.20E-02	1.00E-02		2.25E-08	6.31E-08	1.17E-09	6.31E-06	
			PATI	HWAY TOTA	L =	1.16E-06	7.97E-02	<u> </u>
DERMAL CONTAC	`T							
DERIVIAL CONTAC	, 1							
	Slope	RfD		Intake	Intake	Cancer	Hazard	
Chemical	Factor			Carc	Noncarc	Risk	Quotient	
4 0 Diable-sethers	0.405.00	0.005.00		2.005.00	0.655.00	2.81E-09	4.32E-06	
1,2-Dichloroethane		2.00E-02		3.09E-08	8.65E-08	2.812-09		
Aluminum		1.00E-01		3.02E-04	8.45E-04		8.45E-03	
Aroclor-1254		2.00E-05		5.04E-09	1.41E-08	1.01E-08	7.05E-04	
Benzo(a)anthracer	e 7.30E-01			1.39E-07	3.90E-07	1.02E-07		
Benzo(a)pyrene	7.30E+00			1.66E-07	4.65E-07	1.21E-06	·	
Benzo(b)fluoranthe	ne 7.30E-01			1.95E-07	5.45E-07	1,42E-07		
Dibenz(a,h)anthrac				5.31E-08	1.49E-07	3.87E-07		
Indeno(1,2,3-cd)py				1.73E-07	4.84E-07	1,26E-07		
Iron		7.00E-01		5.02E-04	1.41E-03	1.201.01	2.01E-03	
Tetrachloroethene	5.20E-02			3.87E-08	1.41E-03 1.08E-07	2.01E-09	1.08E-05	
Tenacinoroca iche	0.202-02	1.001-02						
			PATI	HWAY TOTA	<u>L =</u>	1,98E-06	1.12E-02	
INHALATION							<u>:_</u>	
	IUR	RfC		EAC	EAC	Cancer	Hazard	
Chemical				Carc (ug/m3)		Risk	Quotient	
1,2-Dichloroethane	2 605 05	2.40E+00		1.78E-03	4.99E-06	4.64E-08	2.08E-06	
						4.076-00		
Aluminum	 5 705 04	5.00E-03		2.98E-03	8.35E-06	4.075.40	1.67E-03	
Aroclor-1254	5.70E-04			1.88E-09	5.27E-12	1.07E-12		
Benzo(a)anthracer				1.76E-07	4.93E-10	1.55E-11		
Benzo(a)pyrene	8.80E-04			2.17E-07	6.08E-10	1.91E-10		
Benzo(b)fluoranthe	ne 8.80E-05			8.61E-08	2.41E-10	7.58E-12		
Dibenz(a,h)anthrac	ene 8.80E-04			6.95E-08	1.95E-10	6.11E-11		
Indeno(1,2,3-cd)py				2.37E-07	6.64E-10	2.09E-11		
Iron				1.01E-02	2.82E-05			
Tetrachloroethene	5.80E-07	2.70E-01		2.08E-02	5.83E-05	1.21E-08	2.16E-04	
			PAT	HWAY TOTA	L =	5.87E-08	1.89E-03	1
	· ·	<u></u>						<u> </u>
					TOTAL	3.20E-06	9.28E-02	

APPENDIX E

RESTRICTIVE COVENANTS

RESTRICTIVE COVENANT FOR LIMITATION ON USES, CONSTRUCTION AND GROUNDWATER USE

STATE OF TEXAS	§	Doc#	2009036112	
COUNTY OF BRAZORIA	§ §			10

This Restrictive Covenant is filed to provide information concerning certain use limitations upon that parcel of real property (the "Property") described in Exhibits A and B, attached hereto and incorporated herein by reference, and which at the time of this filing is listed on the United States Environmental Protection Agency's ("EPA") National Priority List as a "Superfund Site."

As of the date of this Restrictive Covenant, the record owners of fee title to the Property are Jack Palmer and Ron W. Hudson (individually, "Owner," and collectively, "Owners"). Mr. Palmer's address is 1509 Alta Vista, Alvin, Texas 77511. Mr. Hudson's address is 45 West Sienna Place, The Woodlands, Texas 77382. The appropriate land use for the Property is commercial/industrial.

The Property previously contained surface impoundments, which were closed in 1982 in accordance with the state industrial solid waste regulations and a closure plan as approved by the Texas Department of Water Resources.

Owners have agreed to place the following restrictions on the Property in favor of The Dow Chemical Company ("Dow"), Chromalloy American Corporation ("Chromalloy"), the Texas Commission on Environmental Quality ("TCEQ"), the State of Texas and EPA.

NOW THEREFORE, in consideration of the premises and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the following restrictive covenants in favor of Dow, Chromalloy, TCEQ, the State of Texas and EPA are placed on the Property, to-wit:

1. Commercial/Industrial Use.

The Property shall not be used for any purposes other than commercial/industrial uses, as that term is defined under 30 T.A.C §350.4(a)(13), and thus shall not be used for human habitation or for other purposes with a similar potential for human exposure. Portions of the soils and/or groundwater of the Property contain certain identified chemicals of concern. Future users of the Property are advised to review and take into consideration environmental data from publicly available sources (i.e. TCEO and EPA) prior to utilizing the Property for any purpose.

2. Groundwater.

The groundwater underlying the Property shall not be used for any beneficial purpose, including: (1) drinking water or other potable uses; (2) the irrigation or watering of landscapes or (3) agricultural uses. For any activities that may result in potential exposure to the groundwater,

a plan must be in place to address and ensure the appropriate handling, treatment and disposal of any affected soils or groundwater.

3. Construction.

Construction of any building on the Property is not advisable. If any person desires in the future to construct a building on the Property, the EPA and TCEQ must be notified and must approve of such construction in writing, as additional response actions, such as protection against indoor vapor intrusion, may be necessary before the Property may be built upon. The costs for any additional response actions will be borne by the party(s) desiring to construct upon the Property.

4. These restrictions shall be a covenant running with the land.

For additional information, contact:

The Dow Chemical Company 2030 Dow Center 8th Floor Legal Dept. Midland, MI 48674

ATTN: General Counsel

Chromalloy American Corporation C/O Sequa Corporation 200 Park Avenue New York, NY 10166

ATTN: General Counsel

U.S. Environmental Protection Agency, Region 6 Superfund Division (6RC-S) 1445 Ross Avenue, Suite 1200 Dallas, TX 75202-2733

ATTN: Assistant Regional Counsel

Texas Commission on Environmental Quality P.O. Box 13087 Austin, TX 78711-3087

ATTN: Remediation Division

State of Texas
Office of the Texas Attorney General
Natural Resources Division
300 W. 15th Street
Austin, TX 78701

The restrictions imposed by this Restrictive Covenant may be rendered of no further force or effect only by a release executed by Dow, Chromalloy, TCEQ, the State of Texas and EPA or their successors and filed in the same Real Property Records as those in which this Restrictive Covenant is filed.

[THE REMAINDER OF THIS PAGE WAS INTENTIALLY LEFT BLANK. SIGNATURE PAGES CONTINUE ON NEXT PAGE]

Executed this The day of July	, 2009.
	OWNER: Jack Palmer
	+ Jock P. Palmer
STATE OF TEXAS	§
COUNTY OF Bazoria	§ §
known to me to be the person whose name i	s subscribed to the foregoing instrument, and me for the purposes and in the capacity herein
	SEAL OF OFFICE, this the 146 day of
<u>Suly</u> , 2009.	Royand Corona Notary Public in and for the State of Texas
	Notary Public in and for the State of Texas
HIMMIN COSONIA	My Commission Expires: 10 -23 -201/

Executed this 6th day of July	, 2009.
ow	NER: Ron W. Hudson
	Lonald W. July
STATE OF TEXAS §	
COUNTY OF Montgomery §	
BEFORE ME, on this the 6th day of Julia Hudson, known to me to be the person whose name and acknowledged to me that he executed the same expressed.	e for the purposes and in the capacity herein
July GIVEN UNDER MY HAND AND SEAL 2009.	OF OFFICE, this the 6π day of
	Lisa L. Clow
ANTE USAL, OLO II	ry Public in and for the State of Texas
Notary Public, State of Texas My Commission Expires 07-26-2009	Commission Expires: July 26, 2009

Exhibit A

Legal Description of the Property



5.0010 ACRE ENVIRONMENTAL MANAGEMENT TRACT LOT 56 OF THE BRAZOS COAST INVESTMENT COMPANY SUBDIVISION, DIVISION 8 FREDERICK. J. CALVIT LEAGUE, ABSTRACT 51 BRAZORIA COUNTY, TEXAS PAGE 1 OF 2

ALL THAT CERTAIN 5.0010 ACRE tract of land lying in and situated in the Frederick J. Calvit League, Abstract 51, Brazoria County, Texas, being all of Lot 56 of the Brazos Coast Investment Company Subdivision, Division 8 (B.C.I.C. Div. 8), according to the map or plat thereof recorded in Volume 2, Page 141 of the Brazoria County Plat Records (B.C.P.R.) and being the same tract of land conveyed by deed on May 12, 1999 from Fish Engineering and Construction, Inc. to Jack Palmer and Ron W. Hudson, as recorded in Clerk's File No. 99-021624 of the Brazoria County Official Records (B.C.O.R.), the herein described tract of land being more particularly described by metes and bounds, using survey terminology which refers to the Texas State Plane Coordinate System, South Central Zone (NAD83), in which the directions are Lambert grid bearings and the distances are surface level horizontal lengths (S.F.= 0.99988752832) as follows

COMMENCING at a 3/4" iron rod found marking the North corner Lot 80, same being the West corner of Lot 81 of the aforementioned B.C.I.C. Div. 8 subdivision, located in the southeastern right-of-way boundary line of a 40 foot wide platted roadway of the said B.C.I.C. Div. 8 subdivision, said Point of Commencement being at Texas at State Plane Coordinate System position X=3155152.81 and Y=13556863.07, from which an old 3" x 3/4" hard-wood stake located in the southeastern right-of-way boundary line of a 40 foot wide platted roadway of the said B.C.I.C. Div. 8 subdivision, found marking the North corner of Lot 66, same being the and the West corner of Lot 67 bears South 42°51'47" West, a distance of 4620.94 feet (called 4620.00 feet), at Texas State Plane Coordinate System position X=3152009.76 and Y=13553476.39, herein located point of commencement and point of reference, being shown in 1952 Dow Chemical Company survey by Herman D. Smith, RPS #916, drawing number: B8-8-19000-10488;

THENCE South 42°51'47" West, coincident with the southeastern right-of-way boundary line of said 40 foot wide platted road, a distance of 1650.34 feet to a point for the North corner of Lot 75, same being the West corner of Lot 76 of the B.C.I.C. Div. 8 subdivision, at position X=3154030.29 and Y=13555653.54;

THENCE South 47°08'13" East, coincident with the southeastern boundary line of Lot 76, same being the northeastern boundary line of Lot 75 of the B.C.I.C. Div. 8 subdivision, a distance of 660.00 feet to the POINT OF BEGINNING, at a 5/8" iron rod with survey cap marked "WPD 4467" set for the common corner of Lot 55, Lot 56, Lot 75 and Lot 76 of the B.C.I.C. Div. 8 subdivision and the North corner of the herein described 5.0010 acre tract, from which an iron rod with survey cap bears South 38°39' West, a distance of 11.8 feet, at position X=3154514.00 and Y=13555204.63;

5.0010 ACRE ENVIRONMENTAL MANAGEMENT TRACT LOT 56 OF THE BRAZOS COAST INVESTMENT COMPANY SUBDIVISION, DIVISION 8 FREDERICK. J. CALVIT LEAGUE, ABSTRACT 51 BRAZORIA COUNTY, TEXAS PAGE 2 OF 2

THENCE South 47°08'13" East, coincident with the southwestern boundary line of Lot 55, same being the northeastern boundary line of Lot 56 of the B.C.I.C. Div. 8 subdivision, at a distance of 640.00 feet pass a 5/8" iron rod with survey cap marked "WPD 4467" set in the apparent northwest right-of-way boundary line of the 80 foot wide Marlin Lane, known as Brazoria County Road #756, continuing a total distance of 660.00 feet to a point in the northwestern boundary line of a 40 foot wide platted roadway, at the South corner of Lot 55, same being the East corner of Lot 56 of the B.C.I.C. Div. 8 subdivision, for the East corner of the herein described 5.0010 acre tract, at position X=3154997.71 and Y=13554755.72;

THENCE South 42°51'47" West, coincident with the northwestern right-of-way boundary line of said 40 foot wide platted road, same being the southeastern boundary line of Lot 56 of the B.C.I.C. Div. 8 subdivision, a distance of 330.07 feet to a point for the East corner of Lot 57, same being the South corner of Lot 56 of the B.C.I.C. Div. 8 subdivision, for the South corner of the herein described 5.0010 acre tract, at position X=3154773.21 and Y=13554513.81;

THENCE North 47°08'13" West, coincident with the northeastern boundary line of Lot 57, same being the southwestern boundary line of Lot 56, at a distance of 20.00 feet pass a 5/8" iron rod with survey cap marked "WPD 4467" set in the apparent northwest right-of-way boundary line of the 80 foot wide Marlin Lane, known as Brazoria County Road #756, continuing a total distance of 660.00 feet to a 5/8" iron rod with survey cap marked "WPD 4467" set at the common corner of Lot 56, Lot 57, Lot 74 and Lot 75 of the B.C.I.C. Div. 8 subdivision, for the West corner of the hereindescribed 5.0010 acre tract, at position X=3154289.50 and Y=13554962.72;

THENCE North 42°51'47" East, coincident with northwestern boundary line of Lot 56, same being the southeastern boundary line of Lot 75 of the B.C.I.C. Div. 8 subdivision, a distance of 330.07 feet to the POINT OF BEGINNING, containing 5.0010 acres of land, more or less.

WM. PATRICK DOY

Wm. Patrick Doyle

Registered Professional Land Surveyor

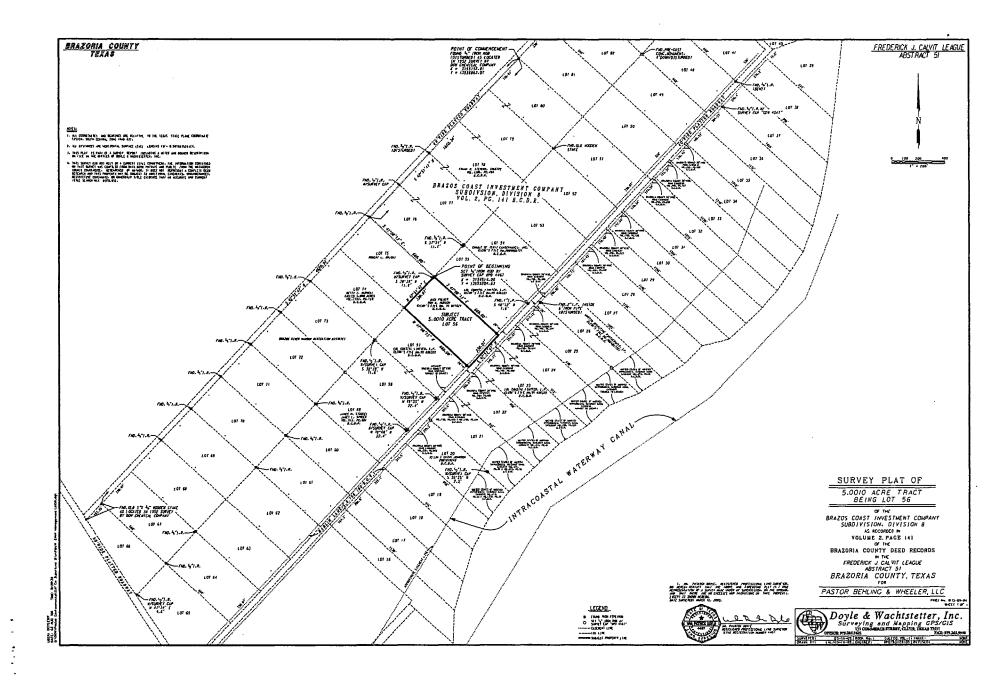
Texas Registration Number 4467

March 24, 2009

This description is based on a survey, a plat of which, March 18, 2009 is on file in the office of Doyle & Wachtstetter, Inc. Legalpat/Gulfeo Lot56 Environmental Management 5.00 Acre Tract BCIC8.doc

Exhibit B

Plat Map of the Property – area covered by Restrictive Covenant for Limitation on Uses, Construction and Groundwater Use



Doc# 2009036112 # Pages 10 08/13/2009 1:44PM Official Public Records of BRAZORIA COUNTY JOYCE HUDMAN COUNTY CLERK Fees \$52.00 Gorge Hectories

RESTRICTIVE COVENANT FOR LIMITATION ON USES, CONSTRUCTION AND GROUNDWATER USE

Doc# 2009036113

STATE OF TEXAS §
COUNTY OF BRAZORIA §

This Restrictive Covenant is filed to provide information concerning certain use limitations upon that parcel of real property (the "Property") described in Exhibits A and B, attached hereto and incorporated herein by reference, and which at the time of this filing is listed on the United States Environmental Protection Agency's ("EPA") National Priority List as a "Superfund Site."

As of the date of this Restrictive Covenant, the record owner of fee title to the Property is LDL COASTAL LIMITED, L.P., a Texas limited partnership ("Owner"), with an address of c/o Allen Daniels, 6363 Woodway Drive, Suite 730, Houston, Texas 77057. The appropriate land use for the Property is commercial/industrial.

Owner has agreed to place the following restrictions on the Property in favor of The Dow Chemical Company ("Dow"), Chromalloy American Corporation ("Chromalloy"), the Texas Commission on Environmental Quality ("TCEQ"), the State of Texas and EPA.

NOW THEREFORE, in consideration of the premises and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the following restrictive covenants in favor of Dow, Chromalloy, TCEQ, the State of Texas and EPA are placed on the Property, to-wit:

1. Commercial/Industrial Use.

The Property shall not be used for any purposes other than commercial/industrial uses, as that term is defined under 30 T.A.C §350.4(a)(13), and thus shall not be used for human habitation or for other purposes with a similar potential for human exposure. Portions of the soils and/or groundwater of the Property contain certain identified chemicals of concern. Future users of the Property are advised to review and take into consideration environmental data from publicly available sources (i.e. TCEQ and EPA) prior to utilizing the Property for any purpose.

2. Groundwater.

The groundwater underlying the Property shall not be used for any beneficial purpose, including: (1) drinking water or other potable uses; (2) the irrigation or watering of landscapes or (3) agricultural uses. For any activities that may result in potential exposure to the groundwater, a plan must be in place to address and ensure the appropriate handling, treatment and disposal of any affected soils or groundwater.

3. Construction.

Construction of any building on the Property is not advisable. If any person desires in the future to construct a building at the Property, the EPA and TCEQ must be notified and must approve of such construction in writing, as additional response actions, such as protection against indoor vapor intrusion, may be necessary before the Property may be built upon. The costs for any additional response actions will be borne by the party(s) desiring to construct upon the Property.

4. These restrictions shall be a covenant running with the land.

For additional information, contact:

The Dow Chemical Company 2030 Dow Center 8th Floor Legal Dept. Midland, MI 48674

ATTN: General Counsel

Chromalloy American Corporation C/O Sequa Corporation 200 Park Avenue New York, NY 10166

ATTN: General Counsel

U.S. Environmental Protection Agency, Region 6 Superfund Division (6RC-S) 1445 Ross Avenue, Suite 1200 Dallas, TX 75202-2733 ATTN: Assistant Regional Counsel

Texas Commission on Environmental Quality

P.O. Box 13087

Austin, TX 78711-3087

ATTN: Remediation Division

State of Texas
Office of the Texas Attorney General
Natural Resources Division
300 W. 15th Street
Austin, TX 78701

The restrictions imposed by this Restrictive Covenant may be rendered of no further force or effect only by a release executed by Dow, Chromalloy, TCEQ, the State of Texas and EPA or their successors and filed in the same Real Property Records as those in which this Restrictive Covenant is filed.

Executed this	ely	······································	2009.
	OWN	ER:	LDL COASTAL LIMITED, L.P., a Texas limited partnership
	Ву:		WAY Management, L.L.C., a Texas ed liability company, its sole general for Solution of the Manager Manager
STATE OF TEXAS	§		
COUNTY OF HAM'S	§ §		
BEFORE ME, on this the 28 day of 28 Daniels, Manager, of RAMWAY Manager the sole general partner of LDL Coastal Lit to be the person whose name is subscribed that he executed the same for the purposes GIVEN UNDER MY HAND AND 2009.	imited, I to the fo and in the	J.P., a Toregoing	exas limited partnership, known to me instrument, and acknowledged to me city herein expressed.
Meredith Anne Moran	Notar	y Public	in and for the State of Texas
My Commission Expires 12/13/2011	Му С	ommiss	ion Expires: 12 13 2011

Exhibit A

Legal Description of the Property



PARCEL No. 1, 5.0010 ACRE ENVIRONMENTAL MANAGEMENT TRACT LOT 55 OF THE BRAZOS COAST INVESTMENT COMPANY SUBDIVISION, DIVISION 8 FREDERICK. J. CALVIT LEAGUE, ABSTRACT 51 BRAZORIA COUNTY, TEXAS PAGE 1 OF 2

ALL THAT CERTAIN 5.0010 ACRE tract of land lying in and situated in the Frederick J. Calvit League, Abstract 51, Brazoria County, Texas, being all of Lot 55 of the Brazos Coast Investment Company Subdivision, Division 8 (B.C.I.C. Div. 8), according to the map or plat thereof recorded in Volume 2, Page 141 of the Brazoria County Plat Records (B.C.P.R.) and being the same tract of land conveyed by deed on August 6, 1999 from Janet Casciato-Northrup, Trustee of the Chapter 7 Bankruptcy Estate of Hercules Marine Services Corporation to LDL Coastal Limited, L.P., as recorded in Clerk's File No. 99-036339 of the Brazoria County Official Records (B.C.O.R.), the herein described tract of land being more particularly described by metes and bounds, using survey terminology which refers to the Texas State Plane Coordinate System, South Central Zone (NAD83), in which the directions are Lambert grid bearings and the distances are surface level horizontal lengths (S.F.= 0.99988752832) as follows

COMMENCING at a 3/4" iron rod found marking the North corner Lot 80, same being the West corner of Lot 81 of the aforementioned B.C.I.C. Div. 8 subdivision, located in the southeastern right-of-way boundary line of a 40 foot wide platted roadway of the said B.C.I.C. Div. 8 subdivision, said Point of Commencement being at Texas at State Plane Coordinate System position X=3155152.81 and Y=13556863.07, from which an old 3" x 3/4" hard-wood stake located in the southeastern right-of-way boundary line of a 40 foot wide platted roadway of the said B.C.I.C. Div. 8 subdivision, found marking the North corner of Lot 66, same being the and the West corner of Lot 67 bears South 42°51'47" West, a distance of 4620.94 feet (called 4620.00 feet), at Texas State Plane Coordinate System position X=3152009.76 and Y=13553476.39, herein located point of commencement and point of reference, being shown in 1952 Dow Chemical Company survey by Herman D. Smith, RPS #916, drawing number: B8-8-19000-10488;

THENCE South 42°51'47" West, coincident with the southeastern right-of-way boundary line of said 40 foot wide platted road, a distance of 1320.27 feet to a point for the North corner of Lot 76, same being the West corner of Lot 77 of the B.C.I.C. Div. 8 subdivision, at position X=3154254.79 and Y=13555895.45;

THENCE South 47°08'13" East, coincident with the southwestern boundary line of Lot 77, same being the northeastern boundary line of Lot 76 of the B.C.I.C. Div. 8 subdivision, a distance of 660.00 feet to the **POINT OF BEGINNING**, at a 5/8" iron rod with survey cap marked "WPD 4467" set, from which a 5/8" iron rod bears South 37°54' West, a distance of 11.7 feet, for the common corner of Lot 54, Lot 55, Lot 76 and Lot 77 of the B.C.I.C. Div. 8 subdivision and the North corner of the herein described 5.0010 acre tract, at position X=3154738.50 and Y=13555446.53;

PARCEL No. 1, 5.0010 ACRE ENVIRONMENTAL MANAGEMENT TRACT LOT 55 OF THE BRAZOS COAST INVESTMENT COMPANY SUBDIVISION, DIVISION 8 FREDERICK. J. CALVIT LEAGUE, ABSTRACT 51 BRAZORIA COUNTY, TEXAS PAGE 2 OF 2

THENCE South 47°08'13" East, coincident with the southwestern boundary line of Lot 54, same being the northeastern boundary line of Lot 55 of the B.C.I.C. Div. 8 subdivision, at a distance of 640.00 feet pass a 5/8" iron rod with survey cap marked "WPD 4467" set in the apparent northwest right-of-way boundary line of the 80 foot wide Marlin Lane, known as Brazoria County Road #756, continuing a total distance of 660.00 feet to a point in the northwestern boundary line of a 40 foot wide platted roadway, at the South corner of Lot 54, same being the East corner of Lot 55 of the B.C.I.C. Div. 8 subdivision, from which an 1" iron pipe bears South 48°12' West, a distance of 1.6 feet, for the East corner of the herein described 5.0010 acre tract, at position X=3155222.22 and Y=13554997.62;

THENCE South 42°51'47" West, coincident with the northwestern right-of-way boundary line of said 40 foot wide platted road, same being the southeastern boundary line of Lot 55 of the B.C.I.C. Div. 8 subdivision, a distance of 330.07 feet to a point for the East corner of Lot 56, same being the South corner of Lot 55 of the B.C.I.C. Div. 8 subdivision, for the South corner of the herein described 5.0010 acre tract, at position X=3154997.71 and Y=13554755.72;

THENCE North 47°08'13" West, coincident with the northeastern boundary line of Lot 56, same being the southwestern boundary line of Lot 55, at a distance of 20.00 feet pass a 5/8" iron rod with survey cap marked "WPD 4467" set in the apparent northwest right-of-way boundary line of the 80 foot wide Marlin Lane, known as Brazoria County Road #756, continuing a total distance of 660.00 feet to a 5/8" iron rod with survey cap marked "WPD 4467" set at the common corner of Lot 55, Lot 56, Lot 75 and Lot 76 of the B.C.I.C. Div. 8 subdivision, for the West corner of the herein described 5.0010 acre tract, from which an iron rod with survey cap bears South 38°39' West, a distance of 11.8 feet, at position X=3154514.00 and Y=13555204.63;

THENCE North 42°51'47" East, coincident with the northwestern boundary line of Lot 55, same being the southeastern boundary line of Lot 76, a distance of 330.07 feet to the **POINT OF BEGINNING**, containing 5.0010 acres of land, more or less.

WM. PATRICK DOYLE

Wm. Patrick Doyle

Registered Professional Land Surveyor

Texas Registration Number 4467

March 24, 2009



PARCEL No. 2, 5.0010 ACRE ENVIRONMENTAL MANAGEMENT TRACT LOT 57 OF THE BRAZOS COAST INVESTMENT COMPANY SUBDIVISION, DIVISION 8 FREDERICK. J. CALVIT LEAGUE, ABSTRACT 51 BRAZORIA COUNTY, TEXAS PAGE 1 OF 2

ALL THAT CERTAIN 5.0010 ACRE tract of land lying in and situated in the Frederick J. Calvit League, Abstract 51, Brazoria County, Texas, being all of Lot 57 of the Brazos Coast Investment Company Subdivision, Division 8 (B.C.I.C. Div. 8), according to the map or plat thereof recorded in Volume 2, Page 141 of the Brazoria County Plat Records (B.C.P.R.) and being the same tract of land conveyed by deed on August 6, 1999 from Janet Casciato-Northrup, Trustee of the Chapter 7 Bankruptcy Estate of Hercules Marine Services Corporation to LDL Coastal Limited, L.P., as recorded in Clerk's File No. 99-036339 of the Brazoria County Official Records (B.C.O.R.), the herein described tract of land being more particularly described by metes and bounds, using survey terminology which refers to the Texas State Plane Coordinate System, South Central Zone (NAD83), in which the directions are Lambert grid bearings and the distances are surface level horizontal lengths (S.F.= 0.99988752832) as follows

COMMENCING at a 3/4" iron rod found marking the North corner Lot 80, same being the West corner of Lot 81 of the aforementioned B.C.I.C. Div. 8 subdivision, located in the southeastern right-of-way boundary line of a 40 foot wide platted roadway of the said B.C.I.C. Div. 8 subdivision, said Point of Commencement being at Texas at State Plane Coordinate System position X=3155152.81 and Y=13556863.07, from which an old 3" x 3/4" hard-wood stake located in the southeastern right-of-way boundary line of a 40 foot wide platted roadway of the said B.C.I.C. Div. 8 subdivision, found marking the North corner of Lot 66, same being the and the West corner of Lot 67 bears South 42°51'47" West, a distance of 4620.94 feet (called 4620.00 feet), at Texas State Plane Coordinate System position X=3152009.76 and Y=13553476.39, herein located point of commencement and point of reference, being shown in 1952 Dow Chemical Company survey by Herman D. Smith, RPS #916, drawing number: B8-8-19000-10488;

THENCE South 42°51'47" West, coincident with the southeastern right-of-way boundary line of said 40 foot wide platted road, a distance of 1980.40 feet to a point for the North corner of Lot 74, same being the West corner of Lot 75 of the B.C.I.C. Div. 8 subdivision, at position X=3153805.79 and Y=13555411.64;

THENCE South 47°08'13" East, coincident with the southwestern boundary line of Lot 75, same being the northeastern boundary line of Lot 74 of the B.C.I.C. Div. 8 subdivision, a distance of 660.00 feet to the **POINT OF BEGINNING**, at a 5/8" iron rod with survey cap marked "WPD 4467" set for the common corner of Lot 56, Lot 57, Lot 74 and Lot 75 of the B.C.I.C. Div. 8 subdivision and the North corner of the herein described 5.0010 acre tract, at position X=3154289.50 and Y=13554962.72;

PARCEL No. 2, 5.0010 ACRE ENVIRONMENTAL MANAGEMENT TRACT LOT 57 OF THE BRAZOS COAST INVESTMENT COMPANY SUBDIVISION, DIVISION 8 FREDERICK. J. CALVIT LEAGUE, ABSTRACT 51 BRAZORIA COUNTY, TEXAS PAGE 2 OF 2

THENCE South 47°08'13" East, coincident with the southwestern boundary line of Lot 56, same being the northeastern boundary line of Lot 57 of the B.C.I.C. Div. 8 subdivision, at a distance of 640.00 feet pass a 5/8" iron rod with survey cap marked "WPD 4467" set in the apparent northwest right-of-way boundary line of the 80 foot wide Marlin Lane, known as Brazoria County Road #756, continuing a total distance of 660.00 feet to a point in the northwestern boundary line of a 40 foot wide platted roadway, at the South corner of Lot 56, same being the East corner of Lot 57 of the B.C.I.C. Div. 8 subdivision, for the East corner of the herein described 5.0010 acre tract, at position X=3154773,21 and Y=13554513.81;

THENCE South 42°51'47" West, coincident with the northwestern right-of-way boundary line of said 40 foot wide platted road, same being the southeastern boundary line of Lot 57 of the B.C.I.C. Div. 8 subdivision, a distance of 330.07 feet to a point for the East corner of Lot 58, same being the South corner of Lot 57 of the B.C.I.C. Div. 8 subdivision, for the South corner of the herein described 5.0010 acre tract, from which an iron rod with survey cap bears North 78°35' West, a distance of 22.4 feet, at position X=3154548.71 and Y=13554271.90;

THENCE North 47°08'13" West, coincident with the northeastern boundary line of Lot 58, same being the southwestern boundary line of Lot 57, at a distance of 20.00 feet pass a 5/8" iron rod with survey cap marked "WPD 4467" set in the apparent northwest right-of-way boundary line of the 80 foot wide Marlin Lane, known as Brazoria County Road #756, continuing a total distance of 660.00 feet to a 5/8" iron rod with survey cap marked "WPD 4467" set at the common corner of Lot 57, Lot 58, Lot 73 and Lot 74 of the B.C.I.C. Div. 8 subdivision, for the West corner of the herein described 5.0010 acre tract, from which an iron rod with survey cap bears South 38°39' West, a distance of 11.6 feet, at position X=3154065.00 and Y=13554720.82;

THENCE North 42°51'47" East, coincident with northwestern boundary line of Lot 57, same being the southeastern boundary line of Lot 74 of the B.C.I.C. Div. 8 subdivision, a distance of 330.07 feet to the **POINT OF BEGINNING**, containing 5.0010 acres of land, more or less.

WM. PATRICK DOYLE

Wm. Patrick Doyle

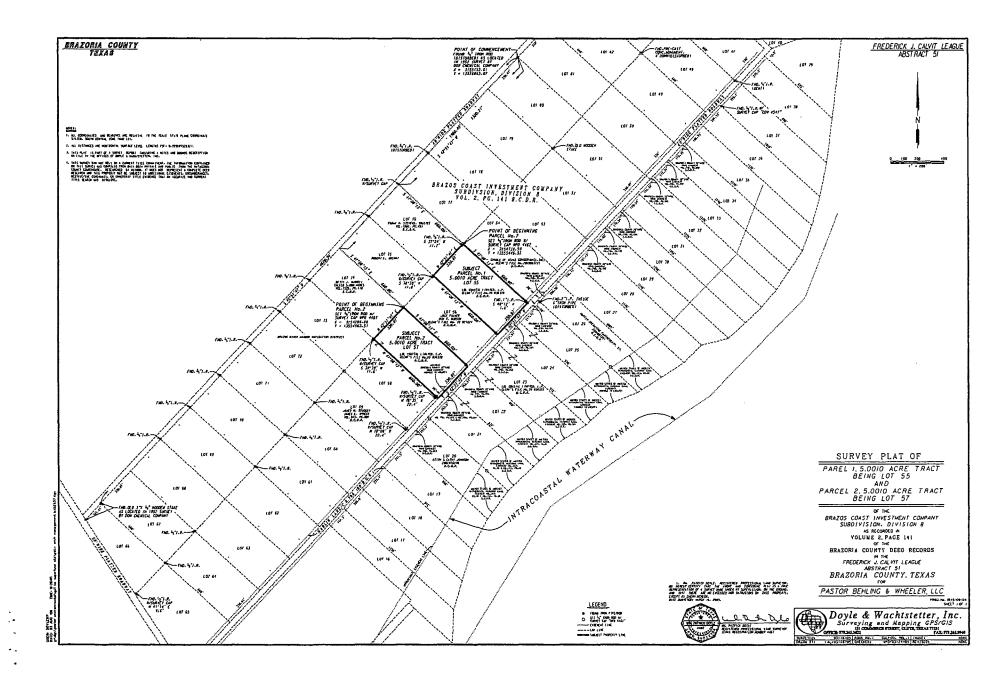
Registered Professional Land Surveyor

Texas Registration Number 4467

March 18, 2009

Exhibit B

Plat Map of the Property – area covered by Restrictive Covenant for Limitation on Uses, Construction and Groundwater Use



Doc# 2009036113 # Pages 10 08/13/2009 1:44PM Official Public Records of BRAZORIA COUNTY JOYCE HUDMAN COUNTY CLERK Fees \$52.00

Goge Hedman

RESTRICTIVE COVENANT FOR LIMITATION ON USES AND GROUNDWATER USE

STATE OF TEXAS	§ §	Doc#	2009036114
COUNTY OF BRAZORIA	§		

This Restrictive Covenant is filed to provide information concerning certain environmental conditions and use limitations upon that parcel of real property (the "Property") described in Exhibits A and B, attached hereto and incorporated herein by reference, and which at the time of this filing is listed on the United States Environmental Protection Agency's ("EPA") National Priority List as a "Superfund Site."

As of the date of this Restrictive Covenant, the record owner of fee title to the Property is LDL COASTAL LIMITED, L.P., a Texas limited partnership ("Owner"), with an address of c/o Allen Daniels, 6363 Woodway Drive, Suite 730, Houston, Texas 77057. The appropriate land use for the Property is commercial/industrial.

LDL Coastal Limited, L.P. has agreed to place the following restrictions on the Property in favor of The Dow Chemical Company ("Dow"), Chromalloy American Corporation ("Chromalloy"), the Texas Commission on Environmental Quality ("TCEQ"), the State of Texas and EPA.

NOW THEREFORE, in consideration of the premises and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the following restrictive covenants in favor of Dow, Chromalloy, TCEQ, the State of Texas and EPA are placed on the Property, to-wit:

1. Commercial/Industrial Use.

The Property shall not be used for any purposes other than commercial/industrial uses, as that term is defined under 30 T.A.C §350.4(a)(13), and thus shall not be used for human habitation or for other purposes with a similar potential for human exposure. Portions of the soils and/or groundwater of the Property contain certain identified chemicals of concern. Future users of the Property are advised to review and take into consideration environmental data from publicly available sources (i.e. TCEO and EPA) prior to utilizing the Property for any purpose.

2. Groundwater.

The groundwater underlying the Property shall not be used for any beneficial purpose, including: (1) drinking water or other potable uses; (2) the irrigation or watering of landscapes or (3) agricultural uses. For any activities that may result in potential exposure to the groundwater, a plan must be in place to address and ensure the appropriate handling, treatment and disposal of any affected soils or groundwater.

3. These restrictions shall be a covenant running with the land. For additional information, contact:

The Dow Chemical Company 2030 Dow Center 8th Floor Legal Dept. Midland, MI 48674 ATTN: General Counsel

Chromalloy American Corporation C/O Sequa Corporation 200 Park Avenue New York, NY 10166 ATTN: General Counsel

U.S. Environmental Protection Agency, Region 6
Superfund Division (6RC-S)
1445 Ross Avenue, Suite 1200
Dallas, TX 75202-2733
ATTN: Assistant Regional Counsel

Texas Commission on Environmental Quality P.O. Box 13087 Austin, TX 78711-3087

ATTN: Remediation Division

State of Texas Office of the Texas Attorney General Natural Resources Division 300 W. 15th Street Austin, TX 78701

The restrictions imposed by this Restrictive Covenant may be rendered of no further force or effect only by a release executed by Dow, Chromalloy, TCEQ, the State of Texas and EPA or their successors and filed in the same Real Property Records as those in which this Restrictive Covenant is filed.

Executed this 18^{79} day of Ju/y, 2009.

Texas limited partnership By: RAMWAY Management, L.L.C., a Texas limited liability company, its sole general partue Allen B. Daniels Mauaget Title: STATE OF TEXAS COUNTY OF WM'S BEFORE ME, on this the <u>28</u> BEFORE ME, on this the 28 day of WW, 2009, personally appeared Allen B. Daniels, Manager, of RAMWAY Management, L.L.C., a Texas limited liability company and the sole general partner of LDL Coastal Limited, L.P., a Texas limited partnership, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and in the capacity herein expressed. GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 28 day of Meredith anne num Notary Public in and for the State of Texas Meredith Anne Moran My Commission Expires My Commission Expires: 12 13 2011

OWNER: LDL COASTAL LIMITED, L.P., a

Exhibit A

Legal Description of the Property



PARCEL No. 1, 5.0010 ACRE ENVIRONMENTAL MANAGEMENT TRACT LOT 58 OF THE BRAZOS COAST INVESTMENT COMPANY SUBDIVISION, DIVISION 8 FREDERICK. J. CALVIT LEAGUE, ABSTRACT 51 BRAZORIA COUNTY, TEXAS PAGE 1 OF 2

ALL THAT CERTAIN 5.0010 ACRE tract of land lying in and situated in the Frederick J. Calvit League, Abstract 51, Brazoria County, Texas, being all of Lot 58 of the Brazos Coast Investment Company Subdivision, Division 8 (B.C.I.C. Div. 8), according to the map or plat thereof recorded in Volume 2, Page 141 of the Brazoria County Plat Records (B.C.P.R.) and being the same tract of land conveyed by deed on August 6, 1999 from Janet Casciato-Northrup, Trustee of the Chapter 7 Bankruptcy Estate of Hercules Marine Services Corporation to LDL Coastal Limited, L.P., as recorded in Clerk's File No. 99-036339 of the Brazoria County Official Records (B.C.O.R.), the herein described tract of land being more particularly described by metes and bounds, using survey terminology which refers to the Texas State Plane Coordinate System, South Central Zone (NAD83), in which the directions are Lambert grid bearings and the distances are surface level horizontal lengths (S.F.= 0.99988752832) as follows

COMMENCING at a 3/4" iron rod found marking the North corner Lot 80, same being the West corner of Lot 81 of the aforementioned B.C.I.C. Div. 8 subdivision, located in the southeastern right-of-way boundary line of a 40 foot wide platted roadway of the said B.C.I.C. Div. 8 subdivision, said Point of Commencement being at Texas at State Plane Coordinate System position X=3155152.81 and Y=13556863.07, from which an old 3" x 3/4" hard-wood stake located in the southeastern right-of-way boundary line of a 40 foot wide platted roadway of the said B.C.I.C. Div. 8 subdivision, found marking the North corner of Lot 66, same being the and the West corner of Lot 67 bears South 42°51'47" West, a distance of 4620.94 feet (called 4620.00 feet), at Texas State Plane Coordinate System position X=3152009.76 and Y=13553476.39, herein located point of commencement and point of reference, being shown in 1952 Dow Chemical Company survey by Herman D. Smith, RPS #916, drawing number: B8-8-19000-10488;

THENCE South 42°51'47" West, coincident with the southeastern right-of-way boundary line of said 40 foot wide platted roadway, a distance of 2310.47 feet to a point for the North corner of Lot 73, same being the West corner of Lot 74 of the said B.C.I.C. Div. 8 subdivision, at position X=3153581.28 and Y=13555169.73;

THENCE South 47°08'13" East, coincident with the southwestern boundary line of Lot 74, same being the northeastern boundary line of Lot 73 of the said B.C.I.C. Div. 8 subdivision, a distance of 660.00 feet to the **POINT OF BEGINNING**, at a 5/8" iron rod with survey cap marked "WPD 4467" set, from which an iron rod with survey cap bears South 38°39' West, a distance of 11.6 feet, for the common corner of Lot 57, Lot 58, Lot 73 and Lot 74 of the B.C.I.C. Div. 8 subdivision and the North corner of the herein described 5.0010 acre tract, at position X=3154065.00 and Y=13554720.82;

PARCEL No. 1, 5.0010 ACRE ENVIRONMENTAL MANAGEMENT TRACT LOT 58 OF THE BRAZOS COAST INVESTMENT COMPANY SUBDIVISION, DIVISION 8 FREDERICK. J. CALVIT LEAGUE, ABSTRACT 51 BRAZORIA COUNTY, TEXAS PAGE 2 OF 2

THENCE South 47°08'13" East, coincident with the southwestern boundary line of Lot 57, same being the northeastern boundary line of Lot 58 of the B.C.I.C. Div. 8 subdivision, at a distance of 640.00 feet pass a 5/8" iron rod with survey cap marked "WPD 4467" set in the apparent northwest right-of-way boundary line of the 80 foot wide Marlin Lane, known as Brazoria County Road #756, continuing a total distance of 660.00 feet to a point in the northwestern boundary line of a 40 foot wide platted roadway, at the South corner of Lot 57, same being the East corner of Lot 58 of the B.C.I.C. Div. 8 subdivision, from which an iron rod with survey cap bears North 78°35' West, a distance of 22.4 feet, for the East corner of the herein described 5.0010 acre tract, at position X=3154548.71 and Y=13554271.90;

THENCE South 42°51'47" West, coincident with the northwestern right-of-way boundary line of said 40 foot wide platted road, same being the southeastern boundary line of Lot 58 of the B.C.I.C. Div. 8 subdivision, a distance of 330.07 feet to a point for the East corner of Lot 59, same being the South corner of Lot 58 of the B.C.I.C. Div. 8 subdivision, from which an iron rod with cap bears North 78°08' West, a distance of 22.4 feet, for the South corner of the herein described 5.0010 acre tract, at position X=3154324.20 and Y=13554030.00;

THENCE North 47°08'13" West, coincident with the northeastern boundary line of Lot 59, same being the southwestern boundary line of Lot 58, at a distance of 20.00 feet pass a 5/8" iron rod with survey cap marked "WPD 4467" set in the apparent northwest right-of-way boundary line of the 80 foot wide Marlin Lane, known as Brazoria County Road #756, continuing a total distance of 660.00 feet to a 5/8" iron rod with survey cap marked "WPD 4467" set at the common corner of Lot 58, Lot 59, Lot 72 and Lot 73 of the B.C.I.C. Div. 8 subdivision, for the West corner of the herein described 5.0010 acre tract, at position X=3153840.49 and Y=13554478.91;

THENCE North 42°51'47" East, coincident with the northwest boundary line of Lot 58, same being the southeastern boundary line of Lot 73 of the B.C.I.C. Div. 8 subdivision, a distance of 330.07 feet to the POINT OF BEGINNING, containing 5.0010 acres of land, more or less.

Wm. Patrick Doyle

Registered Professional Land Surveyor

Texas Registration Number 4467

March 23, 2009

This description is based on a survey, a plat of which, March 18, 2009 is on file in the office of Doyle & Wachtstetter, Inc. Legallyat\ Gulfco Lot 58 Environmental Management 5.00 Acro Tract BCIC8.doc



PARCEL No. 2, 24.7552 ACRE ENVIRONMENTAL MANAGEMENT TRACT ALL OF LOT 21 THROUGH LOT 25 OF THE BRAZOS COAST INVESTMENT COMPANY SUBDIVISION, DIVISION 8 FREDERICK. J. CALVIT LEAGUE, ABSTRACT 51 BRAZORIA COUNTY, TEXAS PAGE 1 OF 3

ALL THAT CERTAIN 24.7552 ACRE tract of land lying in and situated in the Frederick J. Calvit League, Abstract 51, Brazoria County, Texas, being all of Lots 21, 22, 23, 24 and 25 of the Brazos Coast Investment Company Subdivision, Division 8 (B.C.I.C. Div. 8), according to the map or plat thereof recorded in Volume 2, Page 141 of the Brazoria County Plat Records (B.C.P.R.) and being the same tract of land conveyed by deed on August 6, 1999 from Janet Casciato-Northrup, Trustee of the Chapter 7 Bankruptcy Estate of Hercules Marine Services Corporation to LDL Coastal Limited, L.P., as recorded in Clerk's File No. 99-036339 of the Brazoria County Official Records (B.C.O.R.), the herein described tract of land being more particularly described by metes and bounds, using survey terminology which refers to the Texas State Plane Coordinate System, South Central Zone (NAD83), in which the directions are Lambert grid bearings and the distances are surface level horizontal lengths (S.F. = 0.99988752832) as follows:

COMMENCING at a 3/4" iron rod found marking the North corner Lot 80, same being the West corner of Lot 81 of the aforementioned B.C.I.C. Div. 8 subdivision, located in the southeastern right-of-way boundary line of a 40 foot wide platted roadway of the said B.C.I.C. Div. 8 subdivision, said Point of Commencement being at Texas at State Plane Coordinate System position X=3155152.81 and Y=13556863.07, from which an old 3" x 3/4" hard-wood stake located in the southeastern right-of-way boundary line of a 40 foot wide platted roadway of the said B.C.I.C. Div. 8 subdivision, found marking the North corner of Lot 66, same being the and the West corner of Lot 67 bears South 42°51'47" West, a distance of 4620.94 feet (called 4620.00 feet), at Texas State Plane Coordinate System position X=3152009.76 and Y=13553476.39, herein located point of commencement and point of reference, being shown in 1952 Dow Chemical Company survey by Herman D. Smith, RPS #916, drawing number: B8-8-19000-10488;

THENCE South 47°08'13" East, a distance of 1360.00 feet to a point for corner, located in the northwestern boundary line of Lot 32 of the B.C.I.C. Div. 8 subdivision, same being the southeastern right-of-way boundary line of a 40 foot wide platted roadway, at position X=3156149.54 and Y=13555938.04;

THENCE South 42°51'47" West, coincident with the northwestern boundary line of Lot 26 through Lot 32 of the B.C.I.C. Div. 8 subdivision, same being the southeastern right-of-way boundary line of said 40 foot wide platted road, a distance of 1250.83 feet to the POINT OF BEGINNING of the description, from which a 2" iron pipe inside a 6" iron pipe found disturbed bears South 44°30' East, a distance of 20.7 feet, said point being the West corner of Lot 26, same being the North corner of Lot 25 of the B.C.I.C. Div. 8 subdivision and the herein described 24.7552 acre tract, at position X=3155298.76 and Y=13555021.31;

PARCEL No. 2, 24.7552 ACRE ENVIRONMENTAL MANAGEMENT TRACT ALL OF LOT 21 THROUGH LOT 25 OF THE BRAZOS COAST INVESTMENT COMPANY SUBDIVISION, DIVISION 8 FREDERICK. J. CALVIT LEAGUE, ABSTRACT 51 BRAZORIA COUNTY, TEXAS PAGE 2 OF 3

THENCE South 47°08'13" East, coincident with the northeastern boundary line of Lot 25, same being the southwestern boundary line of Lot 26 of the B.C.I.C. Div. 8 subdivision, at a distance of 20.00 feet pass a 5/8" iron rod with survey cap marked "WPD 4467" set in the southeastern right-of-way boundary line of the 80 foot wide Marlin Lane, known as Brazoria County Road #756 and being the East corner of all that certain 20 foot wide road easement conveyed by deed on August 15, 1961 from Joe M. Baggett, et al to Brazoria County, as recorded in Volume 798, Page 674 of the Brazoria County Deed Records (B.C.D.R.), at a distance of 730.00 feet pass a 5/8" iron rod with survey cap marked "WPD 4467" set for reference corner, continuing for a total distance of 1030.00 feet to a point, at the South corner of said Lot 26, East corner of said Lot 25 and the East corner of the United States of America Intracoastal Waterway easement, for the East corner of the herein described 24.7552 acre tract, at position X=3156053.65 and Y=13554320.73;

THENCE South 67°31'58" West, with the southeastern boundary line of said Lot 25 and said United States of America Intracoastal Waterway easement, a distance of 239.59 feet to the South corner of said Lot 25, same being the East corner of said Lot 24, for an angle corner of the herein described 24.7552 acre tract, at position X=3155832.27 and Y=13554229.18;

THENCE South 47°18'32" West, with the southeastern boundary line of said Lot 24 and said United States of America Intracoastal Waterway easement, a distance of 232.21 feet to the South corner of said Lot 24, same being the East corner of said Lot 23, for an angle corner of the herein described 24.7552 acre tract, at position X=3155661.61 and Y=13554071.75;

THENCE South 56°59'51" West, with the southeastern boundary line of said Lot 23 and said United States of America Intracoastal Waterway easement, a distance of 253.89 feet to the South corner of said Lot 23, same being the East corner of said Lot 22, for an angle corner of the herein described 24.7552 acre tract, at position X=3155448.71 and Y=13553933.48;

THENCE South 45°45'48" West, with the southeastern boundary line of said Lot 22 and the said United States of America Intracoastal Waterway easement, a distance of 256.93 feet to the south corner of said Lot 22, same being the East corner of said Lot 21, for an angle corner of the herein described 24.7552 acre tract, at position X=3155264.64 and Y=13553754.25;

THENCE South 46°33'11" West, with the southeastern boundary line of said Lot 21 and the said United States of America Intracoastal Waterway easement, a distance of 264.15 feet to the East corner of Lot 20, same being the South corner of said Lot 21 of the B.C.I.C. Div. 8 subdivision and the South corner of the herein described 24.7552 acre tract, at position X=3155072.89 and Y=13553572.62;

PARCEL No. 2, 24.7552 ACRE ENVIRONMENTAL MANAGEMENT TRACT ALL OF LOT 21 THROUGH LOT 25 OF THE BRAZOS COAST INVESTMENT COMPANY SUBDIVISION, DIVISION 8 FREDERICK. J. CALVIT LEAGUE, ABSTRACT 51 BRAZORIA COUNTY, TEXAS PAGE 3 OF 3

THENCE North 47°08'13" West, coincident with the southwestern boundary line of Lot 21, same being the northeastern boundary line of Lot 20, at a distance of 220.00 feet pass a 5/8" iron rod with survey cap marked "WPD 4467" set for reference corner, at a distance of 800.00 feet pass a 5/8" iron rod with survey cap marked "WPD 4467" set in the southeastern right-of-way boundary line of the 80 foot wide Marlin Lane, known as Brazoria County Road #756 and the South corner of the of a 20 foot wide roadway easement conveyed on August 15, 1961 from R. F. Dwyer, III to Brazoria County, as recorded in Volume 798, Page 679 of the B.C.D.R., continuing for a total distance of 820.00 feet to a point for corner in the southeast right-of-way boundary line of said 40 foot wide platted roadway, at the North corner of Lot 20, West corner of Lot 21 and the West corner of the herein described 24.7552 acre tract, at position X=3154471.91 and Y=13554130.36;

THENCE North 42°51'47" East, coincident with the northwestern boundary line of Lot 21 through Lot 25 of the B.C.I.C. Div. 8 subdivision, same being the southeastern right-of-way boundary line of said 40 foot wide platted road, a distance of 1215.65 feet to the **POINT OF BEGINNING**, containing 24.7552 acres of land, more or less.

Wm. Patrick Doyle

Registered Professional Land Surveyor

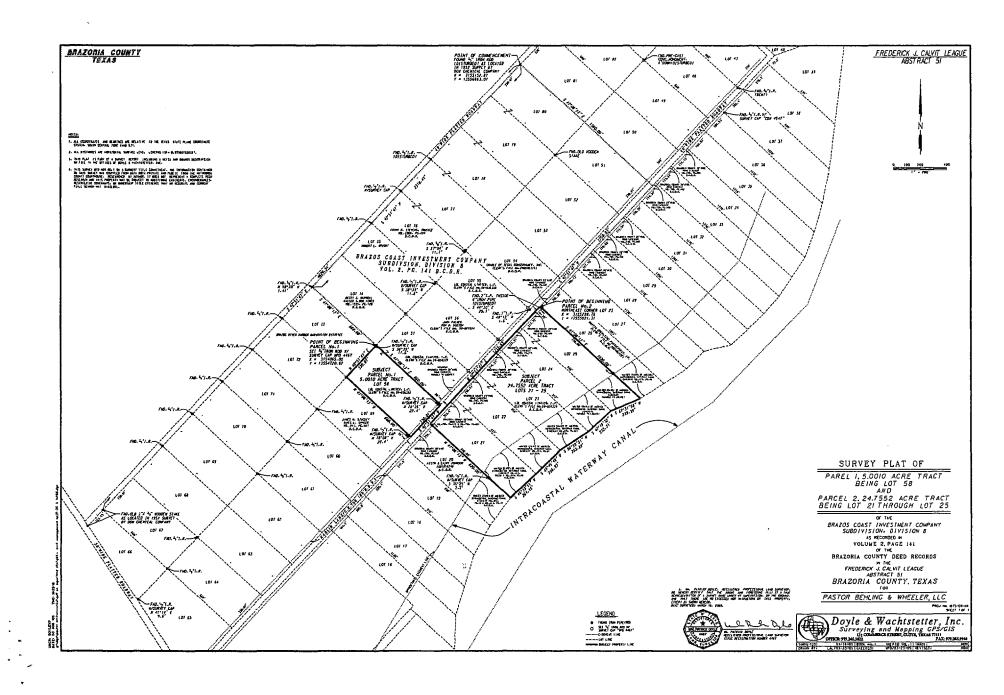
Texas Registration Number 4467

March 23, 2009

This description is based on a survey, a plat of which, March 18, 2009 is on file in the office of Doyle & Wachtstetter, Inc. Legal\pat\Pastor Behling & Wheeler\ Gulfco Superfund Lot21 through Lot25 Environmental Management 24.7552 Acre Tract BCIC#8.doc

Exhibit B

Plat Map of the Property – area covered by Restrictive Covenant for Limitation on Uses and Groundwater Use



Doc# 2009036114
Pages 11
08/13/2009 1:44PM
Official Public Records of
BRAZORIA COUNTY
JOYCE HUDMAN
COUNTY CLERK
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